REPORT

2024 Annual Groundwater Monitoring and Corrective Action Report

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

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Certification

This *2024 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 *2024 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2023 through June 2024 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) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] 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, Smyrna, Georgia 30339), the property occupies approximately 390 acres and is bounded on the southeast by the Chattahoochee River.



Plant McDonough

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 2024 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.

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

2023-2024 Annual Groundwater Monitoring Activities

There were no changes to the AP-2 and 3/4 certified detection monitoring network during this reporting period. Groundwater monitoring semi-annual sampling events for AP-2 and 3/4 were conducted in September 2023 and January-February 2024. Groundwater samples were collected and analyzed for Appendix III[2] and Appendix IV[3] required monitoring parameters.

Analytical data from the September 2023 and January-February 2024 monitoring events has been statistically analyzed in accordance with the Site's certified statistical analysis method. For the September 2023 and January-February 2024 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 2023 SSIs[1]**
Boron	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Calcium	DGWC-4, DGWC-5, DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-4, DGWC-5, DGWC-8, DGWC-10, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42
Fluoride	DGWC-10, DGWC-20, DGWC-47, DGWC-48
pH	DGWC-5, DGWC-8, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, 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-10, 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 2023 SSLs[2]**
Arsenic	DGWC-9
Beryllium	DGWC-5, DGWC-9, DGWC-10, DGWC-47, DGWC-48, B-92, B-93
Cobalt	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[3]	B-104D, B-111D
Appendix III Constituent	**January-February 2024 SSIs[1]**
Boron	DGWC-2, DGWC-4, DGWC-5, DGWC-8, DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48
Calcium	DGWC-4, DGWC-5, DGWC-10, DGWC-11, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-48
Chloride	DGWC-4, DGWC-5, DGWC-8, DGWC-10, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42
Fluoride	DGWC-10, DGWC-20, DGWC-47, DGWC-48
pH	DGWC-5, DGWC-8, DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48
Sulfate	DGWC-2, DGWC-4, DGWC-5, DGWC-8, 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-8, DGWC-10, DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23, DGWC-42, DGWC-48

[2] Appendix III: boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids
[3] Appendix IV: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, combined radium (226 + 228), selenium, and thallium.

Appendix IV Constituent	January-February 2024 SSLs[2]
Arsenic	DGWC-9, DGWC-20
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[3]	B-104D, B-122D

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 Combined Radium (226+228) at B-104D and B-109D was approved by GA EPD on June 15, 2023. An ASD addendum was submitted on May 28, 2024 to GA EPD in response to the recent SSLs of Combined Radium (226+228) at B-111D and B-122D.

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 September 2023 and February 2024 were non-detect for arsenic, cobalt, and lithium; consistent with previous observations.

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, 2023a), and was approved by GA EPD on June 15, 2023. An ASD addendum was submitted for GA EPD review on May 28, 2024 in response to the recent SSL at B-111D and B-122D (WSP, 2024). A *Draft Remedy Selection Report* was prepared by Georgia Power and was submitted to GA EPD under separate cover on August 31, 2023 (WSP, 2023c) and is pending GA EPD review. Based on review of the Appendix III and Appendix IV results noted above, the Site will remain in Assessment Monitoring. Georgia Power will continue routine groundwater monitoring and evaluation of corrective action alternatives at the Site. Reports will be posted to the website and provided to the GA EPD semi-annually.

Table of Contents

1.0 INTRODUCTION 1
1.1 Site Description and Background 1
1.2 Regional Geology and Hydrogeologic Setting 1
1.3 Groundwater Monitoring Network 2
2.0 GROUNDWATER MONITORING ACTIVITIES 2
2.1 Monitoring Well Installation and Maintenance 3
2.2 Assessment Monitoring 3
2.3 Additional Sampling 3
3.0 SAMPLE METHODOLOGY AND ANALYSIS 4
3.1 Groundwater Elevation Measurement 4
3.2 Groundwater Gradient and Flow Velocity 4
3.3 Groundwater Sampling 5
3.4 Laboratory Analysis 6
3.5 Quality Assurance and Quality Control 6
4.0 STATISTICAL ANALYSIS 7
4.1 Statistical Method 7
4.1.1 Appendix III Detection Monitoring Statistical Methods 7
4.1.2 Appendix IV Assessment Monitoring Statistical Methods 7
4.2 Statistical Analysis Results 8
4.2.1 September 2023 Appendix III Statistical Results 8
4.2.2 September 2023 Appendix IV Statistical Results 8
4.2.3 January-February 2024 Appendix III Statistical Results 9
4.2.4 January-February 2024 Appendix IV Statistical Results 9
4.3 Alternate Source Demonstration 9
5.0 ASSESSMENT MONITORING AND DELINEATION STATUS 10
6.0 ASSESSMENT OF CORRECTIVE MEASURES 12

7.0 MONITORING PROGRAM STATUS 13
8.0 CONCLUSIONS AND FUTURE ACTIONS 14
9.0 REFERENCES 14

Tables

Table 1: Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Table 2: Groundwater Event Summary
Table 3: Summary of Groundwater Elevations
Table 4A: Groundwater Flow Velocity Calculations – September 2023
Table 4B: Groundwater Flow Velocity Calculations – January 2024
Table 5A: Groundwater Analytical Data Summary – September 2023
Table 5B: Groundwater Analytical Data Summary – January-February 2024
Table 6A: Surface Water Analytical Data Summary – September 2023
Table 6B: Surface Water Analytical Data Summary – February 2024
Table 7: Summary of Background Levels and GWPS

Figures

Figure 1: Site Location Map
Figure 2: Plant McDonough CCR Removal Area
Figure 3: Monitoring Well, Piezometer and Surface Water Location Map
Figure 4A: Site Potentiometric Map – September 5, 2023
Figure 4B: (Inset) Site Potentiometric Map – September 5, 2023
Figure 5A: Site Potentiometric Map – January 29, 2024
Figure 5B: (Inset) Site Potentiometric Map – January 29, 2024
Figure 6A: Arsenic Isoconcentration Contour Map – September 2023
Figure 6B: Arsenic Isoconcentration Contour Map – January-February 2024
Figure 7A: Beryllium Isoconcentration Contour Map – September 2023
Figure 7B: Beryllium Isoconcentration Contour Map – January-February 2024
Figure 8A: Cobalt Isoconcentration Contour Map – September 2023
Figure 8B: Cobalt Isoconcentration Contour Map – January-February 2024
Figure 9A: Lithium Isoconcentration Contour Map – September 2023
Figure 9B: Lithium Isoconcentration Contour Map – January-February 2024

Figure 10A: Radium Isoconcentration Contour Map – September 2023
Figure 10B: Radium Isoconcentration Contour Map – January-February 2024

Appendices

Appendix A: Field Data Forms and Instrument Calibration Forms
Appendix B: Laboratory Analytical Data, Data Validation Summary and Laboratory Accreditation
Appendix C: Well Condition Inspection Table and Well Maintenance and Repair Documentation
Appendix D: Piezometer Decommissioning and Abandonment Report (B-31 and B-74)
Appendix E: Statistical Analyses
Appendix F: Alternate Source Demonstration for Combined Radium at B-111D and B-122D

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 *2024 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 events conducted in both September 2023 and January-February 2024 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-3/4. AP-1 is reported separately from AP-2 and 3/4. 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 65 feet in thickness across the Site, with an average thickness of approximately 43 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. 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. A separate network for AP-1 as well as a series of piezometers are also installed at the Site. Construction details are presented in Table 1 for each well in the current Site groundwater monitoring network, including detection monitoring wells, assessment monitoring wells, and piezometers for AP-2 and 3/4; and the separate multi-unit monitoring network wells for AP-1.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following section describes monitoring-related activities for sampling performed at the Site from July 2023 through June 2024. Routine groundwater sampling was performed in September 2023 and January-February 2024 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. Monitoring wells B-115D, B-109D, and B-123D are no longer monitored as assessment monitoring wells and are categorized as piezometers for water level monitoring only. September 2023 and January-February 2024 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.

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.

Former Site piezometers B-31 and B-74 were abandoned due to on-site construction/replacement of an industrial water line. Abandonment was performed in accordance with procedures outlined in *Georgia Water Well Standards Act.* A copy of the abandonment report submitted to GA EPD on November 13, 2023 is included as Appendix D. Abandonment of these piezometers does not affect the interpretation of Site potentiometric surface contours or groundwater flow direction.

2.2 Assessment Monitoring

Pursuant to § 257.94(e)(1), an assessment monitoring program has been established for AP-1 based on identified statistically significant increases (SSIs). A notice of assessment monitoring was placed in the operating record on November 13, 2019. Following the requirements of § 257.96, an assessment of corrective measures is ongoing, and a Draft Remedy Selection Report was submitted to GA EPD on August 31, 2023.

Groundwater sampling was conducted for AP-2 and 3/4 in September 2023 and in January-February 2024 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 2023 and January-February 2024 semi-annual sampling events, groundwater samples were collected and analyzed for Appendix III and Appendix IV constituents. Monitoring well DGWC-9 was dry at the time of sampling, likely as a result of ongoing dewatering and closure activities, and therefore, no sample was collected for this reporting period. Results of the sampling activities are discussed in Section 5.0, and the data are presented in Appendix B.

2.3 Additional Sampling

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 September 12, 2023 and on February 6, 2024. The surface water samples were analyzed for Appendix III parameters, select Appendix IV parameters (arsenic, cobalt, and lithium) 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). 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* (US EPA, 2023). The results of surface water sampling are discussed in Section 5.0 and the laboratory reports for the September 2023 and January-February 2024 events are provided in Appendix B. Georgia Power will continue collecting the surface water samples semi-annually as needed for site delineation.

Additional data analyses continue to be analyzed to provide data to support the selected corrective measure (i.e., in-situ injections and monitored natural attenuation). Groundwater samples collected from the detection and assessment monitoring well networks in September 2023 and January-February 2024 were analyzed for major ions (magnesium, potassium, sodium, and total and bicarbonate alkalinity) and minor ions (iron and manganese).

3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe methods used to conduct the September 2023 and January-February 2024 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 2023 and January-February 2024 monitoring events prior to sampling. Groundwater elevation data from September 5, 2023, and from January 29, 2024, 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 focus on 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 2023 and in January 2024 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 (WSP, 2023b), 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 x 10^{-4} centimeters/second (cm/s; 2.18 feet/day), (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)

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

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

Where:

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

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

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

n_e = Effective porosity

Using this equation, groundwater horizontal flow velocities were calculated for AP-2 and 3/4 using September 2023 and January 2024 groundwater elevation data as shown in Tables 4A and 4B, respectively.

Calculated (horizontal) flow velocities range from approximately 106 feet per year (ft/yr) to 120 ft/yr during the September 2023 and January 2024 events (Tables 4A and 4B). 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 meters 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 ±0.1 standard units (S.U.)
- specific conductance within ±5%
- DO within ±10% or ±0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO>0.5 mg/L; if DO<0.5 mg/L, the DO stabilization criterion does not apply
- turbidity less than 5 nephelometric turbidity units (NTU)

Upon achieving stabilization, unfiltered samples were collected directly in 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 2023 and January-February 2024 groundwater samples from wells in the detection and assessment monitoring network were analyzed for Appendix III and Appendix IV monitoring parameters per 40 CFR § 257.93 and § 257.95(d)(2). Tables 5A and 5B presents a tabulated summary of the September 2023 and January-February 2024 detection and assessment sample results. Results for the surface water samples collected in September 2023 and January-February 2024 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 Peachtree Corners, Georgia, Asheville, North Carolina, and Greensburg, Pennsylvania. 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 2023 and January-February 2024 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. The data validation summaries report is provided in Appendix B, along with the laboratory reports. The validated data summarized in Tables 5A and 5B meet project objectives.

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

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

4.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and Appendix IV groundwater monitoring data was performed pursuant to §257.93-95 following the established statistical method for AP-2 and 3/4 (Groundwater Stats Consulting, 2019). The statistical analysis report prepared by Groundwater Stats Consulting, LLC is presented in Appendix E.

4.1 Statistical Method

The selected statistical method for AP-2 and 3/4 was developed in accordance with 40 CFR § 257.93(f), using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance* (US EPA, 2009). 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. Upgradient well data were pooled to establish background statistical limits. Data from the September 2023 and January-February 2024 assessment monitoring events were analyzed using interwell prediction limits applying an optional 1-of-2 verification resample plan and compared to the background statistical limits to evaluate whether concentrations exceed background levels. The Sen's Slope/Mann Kendall trend test was performed to evaluate whether concentrations in individual wells are statistically increasing, decreasing, or stabilizing over time. The results of the background comparisons and trend analyses are presented in Appendix E.

4.1.2 Appendix IV Assessment Monitoring Statistical Methods

Statistical analyses while in assessment monitoring are performed by comparing confidence intervals against 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 rule requirements, background concentrations were evaluated to establish Site-specific GWPS for statistical comparison of Appendix IV constituents. Table 7 summarizes the background limit established at each monitoring well and the GWPS.

Confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well for comparison to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair

considered to exceed its respective standard. If there is an exceedance of the established standard, an SSL exceedance is identified.

A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix E. The background period for statistical analyses included historical data through the current event. Tolerance limits for confidence interval calculations are updated to include current data. Due to varying reporting limits in background over time, the most recent reporting limit is used when analytes are reported as non-detects. This process results in a more appropriate statistical test for the data set.

Based on a recent evaluation, conducted by Groundwater Stats Consulting, the background data period for cobalt at DGWA-53 has been truncated to eliminate historically elevated concentrations that are no longer representative of current background conditions. The revised background period for statistical analyses of cobalt at DGWA-53 includes data from July 12, 2018, through the most recent event (January-February 2024). Excluding the historical elevated concentrations of cobalt at DGWA-53 from background analysis has resulted in a lower GWPS for cobalt and additional SSLs, as discussed in Section 5.

4.2 Statistical Analysis Results

Analytical data from September 2023 and January-February 2024 at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified *Statistical Analysis Plan* (Groundwater Stats Consulting, 2019). Verification resampling to confirm initial statistically significant increases (SSIs) was not performed; therefore, initial SSIs are considered verified. The statistical results are included in Appendix E.

4.2.1 September 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 September 2023 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix E.

4.2.2 September 2023 Appendix IV Statistical Results

Analytical data from the September 2023 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method according to both 40 CFR § 257.95(h) and 391-3-4-.10(6)(a) and 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-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[1]	B-104D, B-111D

Note:
[1] An ASD for Combined Radium (226+228) at B-104D and B-109D was approved by GA EPD on June 15, 2023; refer to Section 4.3. An ASD for the occurrence of combined radium at B-111D was submitted to GA EPD on May 28, 2024 and is pending review and approval.

4.2.3 January-February 2024 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 2024 assessment monitoring event. A detailed list of the noted exceedances is presented in Appendix E.

4.2.4 January-February 2024 Appendix IV Statistical Results

Analytical data from the January-February 2024 monitoring event at AP-2 and 3/4 have been statistically analyzed in accordance with the Site's certified statistical analysis method according to both 40 CFR § 257.95(h) and 391-3-4-.10(6)(a) and 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, DGWC-20
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[1]	B-104D, B-122D

Note:
[1] An ASD for Combined Radium (226+228) at B-104D and B-109D was approved by GA EPD on June 15, 2023; refer to Section 4.3. An ASD for the occurrence of combined radium at B-122D was evaluated and submitted to GA EPD on May 28, 2024 and is pending review and approval.

4.3 Alternate Source Demonstration

Following the provisions of 40 CFR § 257.95, *Alternate Source Demonstration for Combined Radium* was submitted to GA EPD on April 29, 2022, to address the SSL of combined radium in Site groundwater. Following GA EPD initial review and comments, a revised ASD was submitted to GA EPD on July 26, 2022 (Golder, 2022b). 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, 2023a). The May 2023 ASD was approved for combined radium due to natural occurrence in groundwater wells B-104D and B-109D. A second ASD, was evaluated, following the options of § 257.95(g)(3)(ii) and § 391 3-4-.14(23)(c), and submitted to GA EPD on May 28, 2024, as appropriate to address the SSLs of combined radium in B-111D and B-122D following the September 2023 and January-February 2024 semi-annual events, and is pending review and approval by GA EPD. The *Alternate Source Demonstration for Combined Radium at B-111D and B-122D* is in Appendix F.

5.0 ASSESSMENT MONITORING AND DELINEATION STATUS

A network of piezometers has been installed at the Site, and several of these piezometers have been sampled to characterize the nature and extent of SSLs in groundwater. Note, monitoring well DGWC-9 was dry during both the September 2023, and the January-February 2024 sampling events and no sample was collected. This is likely the result of ongoing dewatering as part of closure construction activities. Per Georgia Rule 391-3-4-.10(6)(g), monitoring wells require abandonment and replacement after two consecutive dry sampling events, unless an alternate schedule is approved by GA EPD. Also note that the assessment monitoring well downgradient of DGWC-9 remains below GWPS. GPC has communicated with GA EPD and is coordinating to replace DGWC-9.

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 (WSP, 2023c); 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, are discussed in the *Draft Remedy Selection Report* (WSP 2023c) submitted 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[2]
DGWC-8	Cobalt	B-106D	B-88, Flow is toward AP-4[2]
DGWC-9[1]	Arsenic	B-101D	DGWC-10, Flow is toward AP-4[2]
	Beryllium	B-101D	DGWC-11, Flow is toward AP-4[2]
	Cobalt	B-101D	DGWC-11, Flow is toward AP-4[2]
	Selenium[3]	B-101D	DGWC-10, Flow is toward AP-4[2]
DGWC-10	Beryllium	B-102D	DGWC-11, Flow is toward AP-4[2]
	Cobalt	B-102D	DGWC-11, Flow is toward AP-4[2]
DGWC-19	Cobalt	B-107D	B-77
DGWC-20	Cobalt	B-108D/B-122D	B-83
	Arsenic	B-108D	B-83
DGWC-47	Beryllium	B-122D	B-77
	Cobalt	B-122D	B-77
	Lithium	B-122D	B-77
DGWC-48	Beryllium	B-104D/B-122D	B-83
	Cobalt	B-122D	B-83
	Lithium	B-104D/B-122D	B-83

Detection/Assessment Monitoring Well with SSL	Constituent of Concern	Vertical Delineation Well	Horizontal Delineation Well / Surface Water Monitoring Location
B-56	Cobalt	B-101D	B-66, Flow is toward AP-4[2]
B-63	Cobalt	B-122D	DW_US
B-92	Beryllium	B-111D	B-97, Flow is toward AP-4[2]
	Cobalt	B-111D	B-97, Flow is toward AP-4[2]
B-93	Beryllium	B-111D	B-98, Flow is toward AP-4[2]
	Cobalt	B-111D	B-98, Flow is toward AP-4[2]
B-104D	Cobalt	B-122D	B-122D
B-111D	Combined Radium[5]	pending[5]	pending[5]
B-120D	Lithium	B-125D[4]	DGWC-4, Flow is toward AP-4[2]
B-122D	Combined Radium[5]	pending[5]	pending[5]

Notes:

[1] Monitoring well DGWC-9 was dry during the September 2023 and January-February 2024 sampling events. A replacement well will be installed Per Georgia Rule 391-3-4-.10(6)(g).

[2] Where groundwater flow is inward, toward AP-4, we have indicated delineation is complete.

[3] Most recent concentrations of selenium at DGWC-9 are no longer an SSL and are below the GWPS. This well was noted as dry during the September 2023 and January-February 2024 sampling events. GPC will continue to evaluate the occurrence of selenium at DGWC-9 or its replacement well until the upper confidence interval is below the GWPS.

[4] Delineation status is pending additional data collection at location at B-125D. A minimum of four data points is needed to perform the required statistical analyses.

[5] An Alternate Source Demonstration (ASD) and Supplemental ASD for Combined Radium at B-104D and B-109D has been documented for Plant McDonough (Golder, 2022b, WSP 2023a) and approved by GA EPD on June 15, 2023. An ASD has been submitted to GA EPD on May 28, 2024 in response to the recent SSL at B-111D and B-122D, and is pending review.

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 complete by monitoring well B-125D and will be evaluated statistically after collecting a minimum of four data points. Also note that groundwater flow is inward toward AP-4 at this location.

Horizontal and vertical delineation of radium at B-104D and B-109D is no longer applicable. GA EPD approved the radium ASD demonstrating that radium is naturally occurring in bedrock beneath the Site for wells that had SSLs on June 13, 2023, which includes B-104D and B-109D. A second ASD was submitted to GA EPD on May 28, 2024, as appropriate to address the SSLs of combined radium in B-111D and B-122D following the 2023 second semi-annual event and the 2024 first semi-annual event.

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. Horizontal and vertical delineation

based on review of analytical results, statistical analyses and the isoconcentration contours is presented in more detail in Figures 6A to 10B.

Due to the truncation of the background data set for cobalt at upgradient well DGWA-53, the cobalt tolerance limit calculated following the January-February 2024 event is more conservative at 0.024 mg/L which is lower than the previous GWPS (formerly 0.032 mg/L). Due to the updated lower GWPS Cobalt at DGWC-8 is again an SSL. Horizontal delineation for cobalt is complete as groundwater flow is inward toward AP-4. Vertical delineation is complete with monitoring well B-106D.

Potential trends in SSL constituent concentrations were further evaluated by Groundwater Stats Consulting using the Sen's Slope/Mann Kendall trend test (Appendix E). The following statistically significant trends were identified for the noted well/constituent pairs, based on available data, following the September 2023 monitoring event:

- Increasing trends: Cobalt at DGWA-71, DGWC-9, DGWC-20, and B-56
  Beryllium at DGWC-5
- Decreasing trends: Beryllium at DGWC-70A, DGWC-47 and DGWC-48
  Cobalt at DGWA-53, DGWC-8, DGWC-10, DGWC-20, DGWC-47, and DGWC-48
  Lithium at DGWA-71, DGWC-47, DGWC-48 and B-120D
  Combined Radium at DGWA-53.

The following statistically significant trends were identified for the noted well/constituent pairs, based on available data, following the January-February 2024 monitoring event:

- Increasing trends: Arsenic at DGWC-20
  Cobalt at DGWA-71, DGWC-9, DGWC-20, and B-56
- Decreasing trends: Beryllium at DGWC-70A, DGWC-47 and DGWC-48
  Cobalt at DGWA-53, DGWC-8, DGWC-10, DGWC-47, DGWC-48, and B-93
  Lithium at DGWC-47, DGWC-48 and B-120D
  Combined Radium at DGWA-53.

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, 2020) and this SSL was incorporated into the ACM evaluation.

Concentrations of selenium at DGWC-9 for three consecutive events (prior to this well going dry) 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 for monitoring wells B-104D and B-109D and is pending for wells B-111D and B-122D by GA EPD to address the presence of combined radium in Site groundwater and as such is no longer being evaluated as part of the ACM process.

In accordance with 40 CFR § 257.97(a), remedy selection progress reports have previously 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* was submitted to GA EPD on August 31, 2023. The *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 2020);
- An assessment of corrective action investigations completed;
- 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 and 3/4.

The Site has completed a pre-design investigation (PDI) and are moving towards a pilot study work plan to evaluate the effectiveness of in-situ injections for corrective action. In addition, a treatability study has been completed to determine injectate materials and to identify proper dosage information.

PDI activities were conducted from March 22nd through 27th, 2024. Cascade Technical Services (Cascade) advanced ten (10) direct push technology (DPT) Waterloo Aquifer Profiling System (Waterloo*APS*) borings. Depth-discrete groundwater screening samples were also collected using stainless-steel Waterloo*APS* tooling and a peristaltic pump. Attempts were made to collect groundwater samples from each of the PDI boring locations, but insufficient yield precluded sample collection at some locations. These data are currently being evaluated and will be presented in a future pilot study workplan.

The *Draft Remedy Selection Report* is currently under review by GA EPD and Georgia Power is awaiting concurrence to submit a Pilot Test Workplan for further evaluation of the proposed remedy.

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 *2024 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 2023 and January 2024 water level gauging events are 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. *Alternate Source Demonstration for Combined Radium* was approved by EPD in correspondence dated June 15, 2023 for monitoring wells B-104D and B-109D. A second ASD for the occurrence of combined radium at B-111D and B-122D was submitted for GA EPD review on May 28, 2024.

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 was submitted to GA EPD on August 31, 2023 and is pending review. A high-resolution site characterization has been completed and data are being used to prepare a pilot study work plan which will be submitted for EPD review and approval following concurrence with the draft remedy selection report. The next AP-2 and 3/4 semi-annual groundwater sampling event is tentatively scheduled for September 2024.

9.0 REFERENCES

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Tables

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet, NAVD88)	Ground Surface Elevation (feet, NAVD88)	Total Well Depth (feet below land surface)	Top of Screen Elevation (feet, NAVD88)	Bottom of Screen Elevation (feet, NAVD88)	Screen Length (feet)	Installation Date
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.80	2201668.80	844.26	841.37	28.90	823.77	813.77	10.00	09/24/2016
DGWA-70A	Upgradient	Overburden	1390481.40	2200591.60	808.52	805.67	59.30	756.77	746.77	10.00	05/10/2017
DGWA-71	Upgradient	Overburden	1393963.30	2201714.80	863.84	861.22	43.80	827.82	817.82	10.00	02/28/2017
DGWC-37	Downgradient	Overburden	1390482.20	2200919.80	766.21	763.64	39.70	734.34	724.34	10.00	11/28/2012
DGWC-38	Downgradient	Overburden	1390362.70	2201148.60	757.43	754.67	25.00	739.97	729.97	10.00	11/29/2012
DGWC-39	Downgradient	Overburden	1390303.60	2201540.10	759.89	756.93	21.20	746.13	736.13	10.00	11/06/2012
DGWC-40	Downgradient	Overburden	1390625.70	2201825.90	779.06	776.12	34.90	751.62	741.62	10.00	11/05/2012
DGWC-67	Downgradient	Overburden	1390953.80	2200830.70	766.70	766.80	56.30	720.50	710.50	10.00	03/14/2017
DGWC-68A	Downgradient	Overburden	1391301.20	2200734.90	765.33	765.06	29.80	745.66	735.66	10.00	04/20/2017
DGWC-69	Downgradient	Overburden	1391585.00	2200657.10	763.75	763.99	24.30	749.69	739.69	10.00	03/16/2017
DGWC-121	Downgradient	Overburden	1390739.70	2200849.40	764.16	764.52	50.00	724.82	714.82	10.00	03/22/2022
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK											
B-62	Downgradient	Upper Bedrock	1389828.10	2201811.20	760.08	760.40	39.90	730.70	720.70	10.00	10/04/2016
B-100	Downgradient	Overburden	1390254.80	2202242.10	777.95	775.32	44.80	740.52	730.52	10.00	07/08/2020
B-105D	Downgradient	Upper Bedrock	1390634.50	2201831.90	779.01	776.03	70.00	716.03	706.03	10.00	10/19/2020
B-112D	Downgradient	Upper Bedrock	1391564.20	2200664.10	765.58	765.98	55.00	721.28	711.28	10.00	03/22/2021
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) DETECTION MONITORING WELL NETWORK											
DGWA-53	Upgradient	Upper Bedrock	1393472.80	2201668.80	844.26	841.37	28.90	823.77	813.77	10.00	09/24/2016
DGWA-70A	Upgradient	Overburden	1390481.40	2200591.60	808.52	805.67	59.30	756.77	746.77	10.00	05/10/2017
DGWA-71	Upgradient	Overburden	1393963.30	2201714.80	863.84	861.22	43.80	827.82	817.82	10.00	02/28/2017
DGWC-2	Downgradient	Overburden/Upper Bedrock	1393958.00	2202119.50	850.88	848.17	49.00	809.47	799.47	10.00	10/02/2012
DGWC-4	Downgradient	Overburden	1394171.50	2202662.40	814.85	812.06	45.00	777.36	767.36	10.00	10/03/2012
DGWC-5	Downgradient	Overburden/Upper Bedrock	1394306.30	2202965.10	791.75	788.64	30.00	768.94	758.94	10.00	10/04/2012
DGWC-8	Downgradient	Overburden	1394322.20	2203882.10	826.38	824.02	49.10	785.32	775.32	10.00	10/10/2012
DGWC-9	Downgradient	Overburden	1394055.90	2204170.00	824.35	821.86	30.00	802.26	792.26	10.00	10/10/2012
DGWC-10	Downgradient	Overburden	1393818.30	2204201.10	823.55	820.82	45.40	785.82	775.82	10.00	10/11/2012
DGWC-11	Downgradient	Overburden	1393547.10	2204166.20	800.57	797.99	49.10	759.19	749.19	10.00	10/15/2012
DGWC-12	Downgradient	Overburden	1393149.40	2204128.30	773.86	771.10	25.10	756.40	746.40	10.00	10/15/2012
DGWC-13	Downgradient	Overburden	1392881.10	2204084.60	794.10	791.20	43.80	757.80	747.80	10.00	11/29/2012
DGWC-14	Downgradient	Overburden/Upper Bedrock	1392574.20	2204013.30	792.40	789.69	34.30	765.79	755.79	10.00	12/18/2012
DGWC-15	Downgradient	Overburden	1392544.10	2203679.00	824.50	821.43	67.10	764.73	754.73	10.00	11/29/2012
DGWC-17	Downgradient	Overburden	1392645.60	2203051.00	837.05	834.14	44.50	799.94	789.94	10.00	01/09/2013
DGWC-19	Downgradient	Overburden	1392342.60	2202601.00	825.46	822.87	39.80	793.47	783.47	10.00	03/12/2013
DGWC-20	Downgradient	Overburden	1392164.50	2202315.60	822.14	819.66	39.70	790.56	780.56	10.00	03/05/2013
DGWC-21	Downgradient	Overburden/Upper Bedrock	1392067.50	2202063.50	816.28	813.47	69.00	754.87	744.87	10.00	10/31/2012
DGWC-22	Downgradient	Upper Bedrock	1392126.30	2201791.90	816.59	813.69	60.00	763.99	753.99	10.00	10/25/2012
DGWC-23	Downgradient	Upper Bedrock	1392239.70	2201582.00	818.37	815.63	60.10	765.83	755.83	10.00	10/25/2012
DGWC-42	Downgradient	Overburden	1391327.80	2201870.20	804.68	801.98	50.40	762.08	752.08	10.00	11/12/2012
DGWC-47	Downgradient	Overburden/Upper Bedrock	1391553.80	2202610.50	797.45	794.35	28.80	775.95	765.95	10.00	06/23/2016
DGWC-48	Downgradient	Overburden/Upper Bedrock	1391314.60	2202290.20	788.33	785.21	30.00	765.61	755.61	10.00	06/22/2016

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet, NAVD88)	Ground Surface Elevation (feet, NAVD88)	Total Well Depth (feet below land surface)	Top of Screen Elevation (feet, NAVD88)	Bottom of Screen Elevation (feet, NAVD88)	Screen Length (feet)	Installation Date
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK											
B-56	Downgradient	Overburden	1393957.90	2204187.80	823.59	820.95	45.00	786.35	776.35	10.00	10/03/2016
B-62	Downgradient	Upper Bedrock	1389828.10	2201811.20	760.08	760.40	39.90	730.70	720.70	10.00	10/04/2016
B-63	Downgradient	Overburden	1390999.10	2202978.10	777.10	777.37	46.00	741.87	731.87	10.00	10/06/2016
B-66	Downgradient	Overburden	1393858.20	2204277.50	815.90	813.33	55.30	768.33	758.33	10.00	11/16/2016
B-77	Downgradient	Overburden	1390948.70	2202942.00	776.86	777.12	42.00	745.12	735.12	10.00	09/17/2019
B-82	Downgradient	Overburden	1393750.00	2204258.10	810.07	807.55	45.00	773.05	763.05	10.00	09/21/2019
B-83	Downgradient	Overburden	1390735.50	2202695.60	776.98	777.17	48.60	738.57	728.57	10.00	09/30/2019
B-88	Downgradient	Overburden	1394401.10	2203738.30	820.07	816.80	72.00	754.80	744.80	10.00	11/15/2019
B-92	Downgradient	Overburden	1394392.70	2203026.70	785.08	785.30	25.00	770.70	760.70	10.00	12/11/2019
B-93	Downgradient	Overburden	1394348.70	2202946.70	789.07	789.19	29.20	770.29	760.29	10.00	12/12/2019
B-97	Downgradient	Overburden/Upper Bedrock	1394430.00	2203008.30	786.29	786.50	31.70	765.20	755.20	10.00	02/11/2020
B-98	Downgradient	Overburden	1394392.50	2202934.00	789.67	789.81	19.40	780.81	770.81	10.00	02/10/2020
B-100	Downgradient	Overburden	1390254.80	2202242.10	777.95	775.32	44.80	740.52	730.52	10.00	07/08/2020
B-101D	Downgradient	Overburden/Upper Bedrock	1394063.60	2204168.20	824.29	821.24	75.00	756.34	746.34	10.00	11/12/2020
B-102D	Downgradient	Upper Bedrock	1393828.40	2204200.40	823.42	820.64	85.00	746.24	736.24	10.00	11/10/2020
B-104D	Downgradient	Upper Bedrock	1391318.30	2202298.50	787.90	785.31	60.00	735.31	725.31	10.00	10/20/2020
B-106D	Downgradient	Upper Bedrock	1394327.10	2203869.20	826.21	823.39	80.00	753.99	743.99	10.00	11/13/2020
B-107D	Downgradient	Upper Bedrock	1392334.50	2202596.40	823.38	820.44	85.80	745.34	735.34	10.00	10/28/2020
B-108D	Downgradient	Upper Bedrock	1392156.10	2202312.50	821.13	818.33	80.00	749.33	739.33	10.00	10/27/2020
B-111D	Downgradient	Upper Bedrock	1394303.40	2202956.40	791.84	788.99	85.00	714.79	704.79	10.00	11/03/2020
B-120D	Downgradient	Upper Bedrock	1394047.20	2202436.40	836.42	834.03	69.30	775.03	765.03	10.00	03/06/2021
B-122D	Downgradient	Bedrock	1390992.80	2202975.40	777.03	777.32	79.80	707.52	697.52	10.00	03/24/2022
B-125D	Downgradient	Bedrock	1394111.10	2202580.90	821.70	819.15	145.40	684.05	674.05	10.00	03/31/2023
PIEZOMETERS											
B-3	Downgradient	Overburden/Upper Bedrock	1394045.10	2202411.50	837.78	834.86	37.00	808.16	798.16	10.00	10/03/2012
B-6	Downgradient	Overburden	1394419.50	2203266.50	789.47	786.45	35.40	761.45	751.45	10.00	10/09/2012
B-7	Downgradient	Overburden	1394374.60	2203596.10	809.16	806.04	25.20	791.24	781.24	10.00	10/09/2012
B-16	Downgradient	Overburden	1392595.10	2203315.40	826.47	823.54	43.70	790.14	780.14	10.00	12/19/2012
B-18	Downgradient	Overburden	1392521.00	2202875.50	826.56	823.89	32.60	801.49	791.49	10.00	01/10/2013
B-24	Downgradient	Upper Bedrock	1392479.90	2201450.00	822.11	819.19	79.10	750.89	740.89	10.00	10/24/2012
B-25	Downgradient	Upper Bedrock	1392813.30	2201502.70	836.54	833.41	54.80	789.01	779.01	10.00	10/24/2012
B-26	Downgradient	Upper Bedrock	1393105.60	2201550.40	853.60	850.61	49.30	811.71	801.71	10.00	10/23/2012
B-28	Downgradient	Overburden/Upper Bedrock	1391967.40	2201679.20	816.08	813.28	69.40	754.28	744.28	10.00	10/31/2012
B-29	Downgradient	Overburden	1391890.00	2201422.00	816.43	813.47	54.40	769.37	759.37	10.00	01/11/2013
B-41	Downgradient	Overburden	1390920.80	2201751.90	795.20	792.40	60.00	743.00	733.00	10.00	11/14/2012
B-50	Downgradient	Overburden	1391657.10	2201841.00	809.67	809.20	35.20	784.40	774.40	10.00	06/24/2016
B-51	Downgradient	Overburden	1390501.20	2200906.50	765.92	763.29	65.00	708.29	698.29	10.00	06/27/2016
B-52	Downgradient	Overburden	1392308.30	2201314.80	822.89	820.18	50.00	781.28	771.28	10.00	09/28/2016
B-54	Downgradient	Overburden/Upper Bedrock	1394423.50	2203140.70	785.46	782.54	34.20	758.74	748.74	10.00	09/26/2016
B-55	Downgradient	Overburden	1394142.60	2204147.90	825.12	822.86	52.00	781.86	771.86	10.00	09/22/2016
B-57	Downgradient	Upper Bedrock	1391396.30	2202736.90	789.04	786.03	50.50	746.03	736.03	10.00	09/24/2016
B-58	Downgradient	Overburden	1391125.70	2202426.50	788.17	785.20	45.00	750.70	740.70	10.00	09/23/2016
B-59	Downgradient	Overburden/Upper Bedrock	1394349.10	2203001.10	788.00	785.41	30.30	765.21	755.21	10.00	09/23/2016
B-60	Downgradient	Overburden	1391100.70	2202881.60	782.13	779.25	49.80	739.95	729.95	10.00	09/29/2016
B-61	Downgradient	Overburden	1390957.80	2202505.80	782.09	778.95	51.90	737.45	727.45	10.00	09/29/2016
B-64	Downgradient	Overburden	1394381.90	2203031.30	785.83	785.98	30.40	765.98	755.98	10.00	11/02/2016
B-65	Downgradient	Overburden/Upper Bedrock	1394381.20	2204050.80	821.95	822.30	45.40	787.90	777.90	10.00	11/15/2016

Table 1
Summary of Monitoring Well, Assessment Well and Piezometer Construction Data
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Screened Media	NAD 83 Northing	NAD 83 Easting	Top of Casing Elevation (feet, NAVD88)	Ground Surface Elevation (feet, NAVD88)	Total Well Depth (feet below land surface)	Top of Screen Elevation (feet, NAVD88)	Bottom of Screen Elevation (feet, NAVD88)	Screen Length (feet)	Installation Date
PIEZOMETERS											
B-68	Downgradient	Overburden	1391298.20	2200714.20	758.68	759.05	18.00	751.05	741.05	10.00	03/16/2017
B-72	Downgradient	Overburden	1391242.20	2200723.90	758.46	758.45	21.90	746.95	736.95	10.00	04/19/2017
B-73	Downgradient	Overburden	1391352.40	2200697.50	759.21	759.16	15.80	753.76	743.76	10.00	04/19/2017
B-76	Downgradient	Overburden	1390686.39	2202743.19	760.53	760.87	38.50	732.37	722.37	10.00	09/18/2019
B-78	Downgradient	Overburden/Upper Bedrock	1394328.20	2202958.20	790.75	787.79	30.00	767.79	758.29	10.00	09/22/2019
B-79	Downgradient	Overburden	1394458.60	2203223.00	788.66	785.84	34.90	760.94	751.40	10.00	09/21/2019
B-80	Downgradient	Overburden	1394372.60	2203533.90	804.47	801.73	30.00	781.93	772.40	10.00	09/20/2019
B-81	Downgradient	Overburden	1394364.90	2203741.10	820.56	817.64	50.00	778.50	768.50	10.00	09/22/2019
B-85	Downgradient	Overburden/Upper Bedrock	1394433.40	2203134.50	782.54	782.71	34.50	758.51	748.51	10.00	11/18/2019
B-86	Downgradient	Overburden/Upper Bedrock	1394480.00	2203206.60	784.29	784.52	34.10	760.42	750.42	10.00	11/18/2019
B-87	Downgradient	Overburden	1394401.90	2203531.30	803.37	800.32	42.00	768.62	758.62	10.00	11/17/2019
B-89	Downgradient	Upper Bedrock	1394398.40	2204049.40	822.36	822.53	49.50	783.03	773.03	10.00	11/19/2019
B-90	Downgradient	Overburden	1394501.00	2203212.60	784.00	784.16	33.40	760.76	750.76	10.00	12/10/2019
B-91	Downgradient	Overburden	1394447.10	2203123.90	782.98	783.10	35.00	758.50	748.50	10.00	12/11/2019
B-94	Downgradient	Overburden	1394402.00	2203513.70	801.74	799.12	45.20	764.52	754.52	10.00	01/23/2020
B-95	Downgradient	Overburden	1394518.60	2203167.70	784.00	784.18	33.30	761.18	751.18	10.00	02/11/2020
B-96	Downgradient	Overburden	1394478.70	2203099.30	784.92	785.19	33.10	762.09	752.09	10.00	02/10/2020
B-99	Downgradient	Overburden	1394524.20	2203084.50	782.39	782.57	12.30	775.27	770.27	5.00	07/07/2020
B-103D	Downgradient	Upper Bedrock	1391543.50	2202614.40	795.96	793.77	70.00	733.77	723.77	10.00	10/15/2020
B-109D	Downgradient	Upper Bedrock	1393957.50	2202127.00	850.73	847.78	100.00	758.38	748.38	10.00	10/31/2020
B-110D	Downgradient	Upper Bedrock	1391294.40	2200736.00	764.61	764.55	65.00	711.55	701.55	10.00	11/17/2020
B-113D	Downgradient	Upper Bedrock	1391264.60	2200719.20	758.22	758.87	84.70	684.47	674.47	10.00	03/30/2021
B-115D	Downgradient	Upper Bedrock	1391265.30	2202580.70	789.17	786.43	79.50	717.23	707.23	10.00	03/20/2021
B-116D	Upgradient	Upper Bedrock	1390483.70	2200611.00	807.82	805.31	89.50	726.11	716.11	10.00	03/08/2021
B-117D	Upgradient	Upper Bedrock	1393963.80	2201727.30	863.82	861.23	75.00	796.53	786.53	10.00	03/17/2021
B-118	Upgradient	Upper Bedrock	1391219.30	2200449.70	807.70	804.99	75.20	740.09	730.09	10.00	03/09/2021
B-119D	Upgradient	Upper Bedrock	1391236.40	2200446.60	807.15	804.53	105.00	709.83	699.83	10.00	03/16/2021
B-123D	Downgradient	Bedrock	1391234.40	2202608.40	781.80	778.85	160.00	668.85	618.85	50.00	04/04/2022

Notes:

1. Coordinate System: NAD 1983 State Plane Georgia West (U.S. feet)
2. NAD - North American Datum; NAVD - North American Vertical Datum of 1988
3. Ground surface elevations shown are the elevation of the survey nail.
4. Piezometers B-31 and B-74 were decommissioned and abandoned in October 2023.

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Compliance Purpose	September 06 2023 - September 14 2023	January 30 2024 - February 06 2024
			Assessment	Assessment
Georgia Power Company - Plant McDonough - Ash Pond 2 and 3/4				
B-100	Downgradient	Assessment	X	X
B-101D	Downgradient	Assessment	X	X
B-102D	Downgradient	Assessment	X	X
B-104D	Downgradient	Assessment	X	X
B-106D	Downgradient	Assessment	X	X
B-107D	Downgradient	Assessment	X	X
B-108D	Downgradient	Assessment	X	X
B-111D	Downgradient	Assessment	X	X
B-120D	Downgradient	Assessment	X	X
B-122D	Downgradient	Assessment	X	X
B-125D	Downgradient	Assessment	X	X
B-56	Downgradient	Assessment	X	X
B-62	Downgradient	Assessment	X	X
B-63	Downgradient	Assessment	X	X
B-66	Downgradient	Assessment	X	X
B-77	Downgradient	Assessment	X	X
B-82	Downgradient	Assessment	X	X
B-83	Downgradient	Assessment	X	X
B-88	Downgradient	Assessment	X	X
B-92	Downgradient	Assessment	X	X
B-93	Downgradient	Assessment	X	X
B-97	Downgradient	Assessment	X	X
B-98	Downgradient	Assessment	X	X
DGWA-53	Upgradient	Detection	X	X
DGWA-70A	Upgradient	Detection	X	--
DGWA-71	Upgradient	Detection	X	X
DGWC-10	Downgradient	Detection	X	X
DGWC-11	Downgradient	Detection	X	X
DGWC-12	Downgradient	Detection	X	X
DGWC-13	Downgradient	Detection	X	X
DGWC-14	Downgradient	Detection	X	X
DGWC-15	Downgradient	Detection	X	X
DGWC-17	Downgradient	Detection	X	X
DGWC-19	Downgradient	Detection	X	X
DGWC-2	Downgradient	Detection	X	X
DGWC-20	Downgradient	Detection	X	X

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Hydraulic Location	Compliance Purpose	September 06 2023 - September 14 2023	January 30 2024 - February 06 2024
			Assessment	Assessment
DGWC-21	Downgradient	Detection	X	X
DGWC-22	Downgradient	Detection	X	X
DGWC-23	Downgradient	Detection	X	X
DGWC-4	Downgradient	Detection	X	X
DGWC-42	Downgradient	Detection	X	X
DGWC-47	Downgradient	Detection	X	X
DGWC-48	Downgradient	Detection	X	X
DGWC-5	Downgradient	Detection	X	X
DGWC-8	Downgradient	Detection	X	X
DGWC-9	Downgradient	Detection	Dry	Dry

Notes:
X - Indicates well sampled during event
"--" Not Sampled due to restricted access at the time of collection

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Top of Casing Elevation (feet)	September 5, 2023		January 29, 2024	
		Depth to Water (feet, BTOC)	Groundwater Elevation (feet)	Depth to Water (feet, BTOC)	Groundwater Elevation (feet)
ASH POND 1 (AP-1) DETECTION MONITORING WELL NETWORK					
DGWA-53	844.26	13.21	831.05	14.35	829.91
DGWA-70A	808.52	41.35	767.17	41.51	767.01
DGWA-71	863.84	31.32	832.52	33.11	830.73
DGWC-37	766.21	13.99	752.22	13.42	752.79
DGWC-38	757.43	6.58	750.85	6.47	750.96
DGWC-39	759.89	7.55	752.34	7.12	752.77
DGWC-40	779.06	17.85	761.21	18.09	760.97
DGWC-67	766.70	10.42	756.28	9.72	756.98
DGWC-68A	765.33	10.45	754.88	9.89	755.44
DGWC-69	763.75	6.07	757.68	5.60	758.15
DGWC-121	764.16	9.23	754.93	8.57	755.59
ASH POND 1 (AP-1) ASSESSMENT MONITORING WELL NETWORK					
B-62	760.08	15.88	744.20	15.91	744.17
B-100	777.95	33.97	743.98	34.07	743.88
B-105D	779.01	17.44	761.57	17.68	761.33
B-112D	765.58	7.56	758.02	6.84	758.74
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK					
DGWA-53	844.26	13.21	831.05	14.35	829.91
DGWA-70A	808.52	41.35	767.17	41.51	767.01
DGWA-71	863.84	31.32	832.52	33.11	830.73
DGWC-2	850.88	29.23	821.65	31.59	819.29
DGWC-4	814.85	25.45	789.40	25.53	789.32
DGWC-5	791.75	14.37	777.38	12.08	779.67
DGWC-8	826.38	35.46	790.92	39.91	786.47
DGWC-9	824.35	Dry		Dry	
DGWC-10	823.55	29.69	793.86	29.72	793.83
DGWC-11	800.57	12.88	787.69	13.24	787.33
DGWC-12	773.86	9.62	764.24	8.35	765.51
DGWC-13	794.10	34.02	760.08	34.54	759.56
DGWC-14	792.40	19.97	772.43	20.76	771.64
DGWC-15	824.50	39.86	784.64	41.58	782.92
DGWC-17	837.05	37.96	799.09	38.54	798.51
DGWC-19	825.46	26.65	798.81	26.78	798.68
DGWC-20	822.14	24.59	797.55	24.53	797.61
DGWC-21	816.28	19.04	797.24	19.71	796.57
DGWC-22	816.59	22.55	794.04	22.94	793.65
DGWC-23	818.37	22.17	796.20	20.09	798.28
DGWC-42	804.68	30.36	774.32	30.83	773.85
DGWC-47	797.45	16.55	780.90	17.45	780.00
DGWC-48	788.33	15.05	773.28	15.50	772.83

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Top of Casing Elevation (feet)	September 5, 2023		January 29, 2024	
		Depth to Water (feet, BTOC)	Groundwater Elevation (feet)	Depth to Water (feet, BTOC)	Groundwater Elevation (feet)
ASH POND 2 and ASH PONDS 3/4 (AP-2, 3/4) ASSESSMENT MONITORING WELL NETWORK					
B-56	823.59	30.36	793.23	30.43	793.16
B-62	760.08	15.88	744.20	15.91	744.17
B-63	777.10	29.63	747.47	29.33	747.77
B-66	815.90	19.15	796.75	18.88	797.02
B-77	776.86	29.75	747.11	29.09	747.77
B-82	810.07	14.54	795.53	15.13	794.94
B-83	776.98	30.95	746.03	31.15	745.83
B-88	820.07	38.76	781.31	39.35	780.72
B-92	785.08	7.95	777.13	5.87	779.21
B-93	789.07	10.21	778.86	8.40	780.67
B-97	786.29	5.41	780.88	4.89	781.40
B-98	789.67	11.82	777.85	7.53	782.14
B-100	777.95	33.97	743.98	34.07	743.88
B-101D	824.29	38.20	786.09	37.15	787.14
B-102D	823.42	34.10	789.32	34.08	789.34
B-104D	787.90	6.87	781.03	7.10	780.80
B-106D	826.21	38.96	787.25	40.97	785.24
B-107D	823.38	24.48	798.90	24.65	798.73
B-108D	821.13	23.45	797.68	23.77	797.36
B-111D	791.84	12.37	779.47	10.76	781.08
B-120D	836.42	35.15	801.27	36.09	800.33
B-122D	777.03	30.28	746.75	30.32	746.71
B-125D	821.70	23.40	798.30	24.20	797.50
PIEZOMETERS					
B-3	837.78	36.59	801.19	37.49	800.29
B-6	789.47	12.33	777.14	9.70	779.77
B-7	809.16	27.87	781.29	28.03	781.13
B-16	826.47	36.98	789.49	37.08	789.39
B-18	826.56	24.99	801.57	24.65	801.91
B-24	822.11	22.03	800.08	23.49	798.62
B-25	836.54	16.12	820.42	14.33	822.21
B-26	853.60	22.16	831.44	27.85	825.75
B-28	816.08	30.59	785.49	31.10	784.98
B-29	816.43	29.39	787.04	29.36	787.07
B-31	797.47	34.02	763.45	Abandoned	
B-41	795.20	25.11	770.09	25.40	769.80
B-50	809.67	23.12	786.55	23.59	786.08
B-51	765.92	13.22	752.70	12.76	753.16

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Well ID	Top of Casing Elevation (feet)	September 5, 2023		January 29, 2024	
		Depth to Water (feet, BTOC)	Groundwater Elevation (feet)	Depth to Water (feet, BTOC)	Groundwater Elevation (feet)
PIEZOMETERS					
B-52	822.89	30.09	792.80	31.28	791.61
B-54	785.46	8.93	776.53	6.91	778.55
B-55	825.12	27.12	798.00	27.42	797.70
B-57	789.04	18.58	770.46	19.95	769.09
B-58	788.17	19.29	768.88	20.92	767.25
B-59	788.00	12.92	775.08	9.44	778.56
B-60	782.13	31.15	750.98	31.50	750.63
B-61	782.09	18.76	763.33	20.19	761.90
B-64	785.83	9.82	776.01	7.01	778.82
B-65	821.95	14.52	807.43	21.02	800.93
B-68	758.68	4.07	754.61	3.57	755.11
B-72	758.46	3.60	754.86	3.30	755.16
B-73	759.21	4.63	754.58	3.84	755.37
B-74	759.06	4.24	754.82	Abandoned	
B-76	760.53	15.37	745.16	15.59	744.94
B-78	790.75	13.24	777.51	11.45	779.30
B-79	788.66	10.01	778.65	8.65	780.01
B-80	804.47	23.38	781.09	23.32	781.15
B-81	820.56	37.99	782.57	38.98	781.58
B-85	782.54	5.38	777.16	3.78	778.76
B-86	784.29	4.84	779.45	3.50	780.79
B-87	803.37	22.25	781.12	22.01	781.36
B-89	822.36	23.92	798.44	26.26	796.10
B-90	784.00	4.17	779.83	3.02	780.98
B-91	782.98	5.11	777.87	4.32	778.66
B-94	801.74	20.93	780.81	20.56	781.18
B-95	784.00	3.75	780.25	3.13	780.87
B-96	784.92	7.25	777.67	5.74	779.18
B-99	782.39	4.53	777.86	3.16	779.23
B-103D	795.96	13.50	782.46	13.71	782.25
B-109D	850.73	38.89	811.84	40.65	810.08
B-110D	764.61	9.21	755.40	8.72	755.89
B-113D	758.22	1.97	756.25	2.01	756.21
B-115D	789.17	20.59	768.58	22.14	767.03
B-116D	807.82	43.32	764.50	42.58	765.24
B-117D	863.82	31.83	831.99	33.74	830.08
B-118	807.70	51.96	755.74	51.63	756.07
B-119D	807.15	47.91	759.24	47.42	759.73
B-123D	781.80	12.24	769.56	13.65	768.15

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.
3. Piezometers B-31 and B-74 were abandoned in October 2023.
4. BTOC indicates below top of casing.

Table 4A
Groundwater Flow Velocity Calculations - September 2023
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Gauging Event	Well Pair	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (Δ h) (ft)	Distance Between Well 1 and Well 2 (Δ l) (ft)	Hydraulic Gradient (i) (ft/ft)	Average Hydraulic Conductivity (K) (ft/day)	Assumed Effective Porosity (ne)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
September 2023	B-26 to DGWC-48	831.44	773.28	58.16	1938.0	0.03	2.18	0.2	0.33	120
September 2023	DGWA-53 to DGWC-13	831.05	760.08	70.97	2487.5	0.029	2.18	0.2	0.32	117

Notes:

ft = feet, ft/ft = feet/foot, ne = effective porosity

1. Δ h = Change in groundwater elevation
2. Δ l =Distance along flow path
3. i = Δ h / Δ l
4. Velocity = $(i * K)/n_e$
5. Hydraulic conductivity based on historic aquifer performance tests
6. Assumed effective porosities for overburden was based on the default values recommended by US EPA for a silty sand-type soil (1996).

Table 4B
Groundwater Flow Velocity Calculations - January 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Gauging Event	Well Pair	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (Δ h) (ft)	Distance Between Well 1 and Well 2 (Δ l) (ft)	Hydraulic Gradient (i) (ft/ft)	Average Hydraulic Conductivity (K) (ft/day)	Assumed Effective Porosity (ne)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
January 2024	B-26 to DGWC-48	825.75	772.83	52.92	1938.0	0.027	2.18	0.2	0.29	106
January 2024	DGWA-53 to DGWC-13	829.91	759.56	70.35	2487.5	0.028	2.18	0.2	0.31	113

Notes:
ft = feet, ft/ft = feet/foot, ne = effective porosity
1. Δ h = Change in groundwater elevation
2. Δ l =Distance along flow path
3. i = Δ h / Δ l
4. Velocity = $(i * K)/n_e$
5. Hydraulic conductivity based on historic aquifer performance tests
6. Assumed effective porosities for overburden was based on the default values recommended by US EPA for a silty sand-type soil (1996).

Table 5A
Groundwater Analytical Data Summary – September 2023
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWA-53	DGWA-70A	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-10	DGWC-11	DGWC-12
	Sample Date	09/07/2023	09/06/2023	09/06/2023	09/13/2023	09/13/2023	09/13/2023	09/12/2023	09/11/2023	09/08/2023	09/11/2023
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.052	0.012 J	0.015 J	0.38	5.1	2.8	0.75	0.28	1.7	0.46
Calcium	mg/L	16.3	6.6	7.0	33.6	279	152	30.0	72.7	58.6	30.8
Chloride	mg/L	1.7	2.2	7.8	1.9	9.4	9.5	9.5	10.1	11.2	6.5
Fluoride	mg/L	0.082 J	< 0.050	< 0.050	0.083 J	< 0.050	0.14	0.091 J	1.3	< 0.050	0.13
pH, Field	SU	6.51	5.50	5.82	6.06	5.64	4.74	5.02	4.56	5.44	6.10
Sulfate	mg/L	15.4	< 0.50	7.2	95.5	852	576	134	258	256	132
TDS	mg/L	123	46.0	80.0	212	1520	1020	251	436	451	302
APPENDIX IV											
Antimony	mg/L	< 0.0012	< 0.0012	0.0045	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Arsenic	mg/L	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	0.0065	< 0.0037	< 0.0037
Barium	mg/L	0.12	0.041	0.030	0.023	0.034	0.016	0.021	0.019	0.034	0.058
Beryllium	mg/L	< 0.000054	0.00012 J	0.00011 J	< 0.000054	0.00040 J	0.0084	0.0014	0.0065	0.00020 J	0.000077 J
Cadmium	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00099	0.0013	0.0015	0.00060	0.00014 J	< 0.00011
Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0016 J	< 0.0011	< 0.0011
Cobalt	mg/L	0.0086	< 0.00039	< 0.00039	0.0024 J	0.0018 J	0.016	0.0030 J	0.11	0.0011 J	0.017
Lead	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.0012	< 0.00012	< 0.00012
Lithium	mg/L	0.0085 J	< 0.00073	0.0013 J	0.017 J	0.0040 J	0.0081 J	0.0045 J	0.0043 J	0.0017 J	< 0.00073
Mercury	mg/L	< 0.00013	< 0.00012	< 0.00012	< 0.00013	< 0.00013	0.00028	0.00013 J	0.0021	0.00048	< 0.00013
Molybdenum	mg/L	0.022	< 0.00074	< 0.00074	0.0022 J	0.0034 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
Combined Radium 226 + 228	pCi/L	2.16	0.651 U	0.572 U	0.864 U	0.964 U	1.23 U	0.630 U	1.09	1.20	1.02
Selenium	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0020 J	< 0.0014	0.038	< 0.0014	< 0.0014
Thallium	mg/L	< 0.00018	0.00053 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.0018	< 0.00018	0.00021 J
Fluoride	mg/L	0.082 J	< 0.050	< 0.050	0.083 J	< 0.050	0.14	0.091 J	1.3	< 0.050	0.13
ADDITIONAL PARAMETERS											
Bicarbonate Alkalinity as CaCO3	mg/L	74.5	27.2	16.4	46.6	111	5.5	5.2	< 5.0	13.6	66.1
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	74.5	27.2	16.4	46.6	111	5.5	5.2	< 5.0	13.6	66.1
Iron	mg/L	14.9	< 0.025	0.091	0.16	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	26.4
Ferrous (II) Iron	mg/L	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
Magnesium	mg/L	5.1	2.6	0.98	6.9	36.2	25.9	13.9	6.7	30.2	18.1
Potassium	mg/L	3.8	1.6	0.77	5.0	9.6	4.8	4.0	5.5	4.2	8.5
Sodium	mg/L	7.6	3.4	8.8	8.5	51.9	23.9	12.0	11.1	20.9	8.0
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5A
Groundwater Analytical Data Summary – September 2023
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42
	Sample Date	09/08/2023	09/08/2023	09/08/2023	09/13/2023	09/08/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/13/2023
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.55	0.11	1.4	1.0	2.2	2.5	7.1	3.9	4.4	1.1
Calcium	mg/L	32.7	12.0	34.3	19.8	115	114	88.4	61.2	95.4	33.6
Chloride	mg/L	11.7	3.5	20.0	18.2	15.8	26.9	17.8	16.8	12.0	18.4
Fluoride	mg/L	0.055 J	< 0.050	< 0.050	0.10	0.17	1.5	0.054 J	0.054 J	0.10	< 0.050
pH, Field	SU	5.59	5.67	5.81	5.04	4.78	4.06	5.61	5.57	5.99	5.04
Sulfate	mg/L	98.7	43.1	126	255	369	552	268	236	275	294
TDS	mg/L	217	156	274	480	634	960	519	460	582	545
APPENDIX IV											
Antimony	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0013 J	0.0018 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Arsenic	mg/L	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	0.029	< 0.0037	< 0.0037	< 0.0037	< 0.0037
Barium	mg/L	0.022	0.057	0.035	0.031	0.022	0.014	0.024	0.029	0.022	0.015
Beryllium	mg/L	0.000087 J	< 0.000054	< 0.000054	0.00057	0.0015	0.0067	0.00016 J	0.00012 J	0.00035 J	0.0024
Cadmium	mg/L	< 0.00011	< 0.00011	< 0.00011	0.00019 J	0.00034 J	0.0038	0.00054	0.00060	< 0.00011	0.00068
Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0027 J	0.0021 J	0.0026 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Cobalt	mg/L	< 0.00039	< 0.00039	0.0018 J	0.020	0.051	1.4	0.0097	0.0074	0.00074 J	0.0080
Lead	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.012	< 0.00012	< 0.00012	< 0.00012	0.00018 J
Lithium	mg/L	0.0031 J	0.0041 J	0.0051 J	< 0.00073	0.0024 J	0.011 J	0.0055 J	0.0031 J	0.0036 J	0.0087 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.0073 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00097 J	0.0088 J	< 0.00074
Combined Radium 226 + 228	pCi/L	0.771 U	0.750 U	0.673 U	1.02 U	0.371 U	1.45	0.429 U	0.580 U	1.28	1.59
Selenium	mg/L	0.0029 J	0.0015 J	< 0.0014	0.0065	0.0045 J	0.14	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Thallium	mg/L	< 0.00018	0.00056 J	< 0.00018	< 0.00018	0.00050 J	< 0.018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Fluoride	mg/L	0.055 J	< 0.050	< 0.050	0.10	0.17	1.5	0.054 J	0.054 J	0.10	< 0.050
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	21.6	15.7	17.5	< 5.0	< 5.0	< 5.0	30.7	26.4	86.8	6.7
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	21.6	15.7	17.5	< 5.0	< 5.0	< 5.0	30.7	26.4	86.8	6.7
Iron	mg/L	< 0.025	< 0.025	0.13	0.041	< 0.025	< 0.13	< 0.025	< 0.025	< 0.025	0.098
Ferrous (II) Iron	mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25
Magnesium	mg/L	7.3	4.9	14.6	55.1	11.5	22.5	18.8	22.0	23.0	23.1
Potassium	mg/L	4.7	3.3	4.7	3.8	4.4	13.0	6.5	6.0	7.4	5.2
Sodium	mg/L	17.5	7.1	21.6	18.3	40.0	18.9	23.0	26.2	22.2	71.3
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5A
Groundwater Analytical Data Summary – September 2023
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-47	DGWC-48	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88
	Sample Date	09/12/2023	09/13/2023	09/08/2023	09/07/2023	09/07/2023	09/11/2023	09/12/2023	09/11/2023	09/12/2023	09/12/2023
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.10	0.57	1.5	0.071	0.34	2.1	0.26	0.38	0.29	1.9
Calcium	mg/L	21.9	55.0	19.8	35.1	23.7	46.7	19.2	52.3	32.4	102
Chloride	mg/L	2.4	6.5	6.8	5.4	6.8	9.0	4.0	11.9	2.4	9.1
Fluoride	mg/L	0.51	0.51	0.24	0.13	0.12	0.12	0.069 J	0.11	0.087 J	< 0.050
pH, Field	SU	3.99	4.06	4.60	6.38	5.27	6.22	6.55	5.60	5.66	5.41
Sulfate	mg/L	119	268	233	49.3	87.1	260	< 0.50	373	95.7	449
TDS	mg/L	218	473	402	181	186	484	98.0	612	204	752
APPENDIX IV											
Antimony	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Arsenic	mg/L	< 0.0037	< 0.0037	0.0043 J	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037
Barium	mg/L	0.023	0.015	0.028	0.015	0.025	0.028	0.12	0.024	0.028	0.017
Beryllium	mg/L	0.0081	0.0065	0.0013	0.00011 J	0.00050 J	< 0.000054	< 0.000054	0.0017	0.00038 J	0.0014
Cadmium	mg/L	0.00083	0.0026	0.00034 J	< 0.00011	0.00028 J	0.00018 J	< 0.00011	0.00058	0.00027 J	0.0026
Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	0.0022 J	< 0.0011
Cobalt	mg/L	0.18	0.31	0.057	< 0.00039	0.047	0.020	< 0.00039	0.0024 J	0.015	0.0022 J
Lead	mg/L	0.00024 J	0.00082 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00090 J
Lithium	mg/L	0.034	0.096	0.0055 J	0.0092 J	0.0069 J	< 0.00073	< 0.00073	< 0.00073	0.0021 J	0.0040 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00081 J	< 0.00074	< 0.00074
Combined Radium 226 + 228	pCi/L	2.19	1.22 U	0.859 U	2.24	0.988 U	0.736 U	1.16	0.212 U	0.0781 U	1.16
Selenium	mg/L	0.0022 J	< 0.0014	0.0087	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0018 J	0.020	0.0027 J
Thallium	mg/L	0.00019 J	< 0.00018	0.00021 J	< 0.00018	< 0.00018	0.00021 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Fluoride	mg/L	0.51	0.51	0.24	0.13	0.12	0.12	0.069 J	0.11	0.087 J	< 0.050
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	75.7	28.4	68.1	< 5.0	16.9	41.6	13.1
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	75.7	28.4	68.1	< 5.0	16.9	41.6	13.1
Iron	mg/L	3.0	3.3	0.15	5.0	0.97	0.93	45.2	0.036 J	0.11	0.29
Ferrous (II) Iron	mg/L	2.5	4.0	0.25	1.5	1.0	1.25	6.75	0.0	0.0	0.5
Magnesium	mg/L	6.1	12.6	35.9	5.1	8.3	45.7	6.2	70.4	8.3	34.7
Potassium	mg/L	5.3	12.0	5.3	2.4	2.6	5.2	2.1	7.3	2.2	10.9
Sodium	mg/L	6.8	17.4	22.5	10.1	12.4	29.7	6.8	16.5	8.9	26.4
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5A
Groundwater Analytical Data Summary – September 2023
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-92	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
	Sample Date	09/06/2023	09/06/2023	09/06/2023	09/06/2023	09/06/2023	09/08/2023	09/11/2023	09/13/2023	09/11/2023	09/12/2023
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	3.2	3.0	3.7	0.30	0.24	1.3	1.8	0.26	0.81	11.3
Calcium	mg/L	158	148	220	43.2	49.9	96.6	71.9	152	35.3	80.8
Chloride	mg/L	13.6	16.8	17.2	3.2	10.0	9.5	10.4	7.7	7.8	14.1
Fluoride	mg/L	0.26	0.26	0.085 J	0.10	< 0.050	< 0.050	0.10	0.30	0.067 J	< 0.050
pH, Field	SU	4.71	4.85	5.61	6.16	5.25	6.04	5.39	6.44	5.80	5.85
Sulfate	mg/L	531	555	639	53.9	322	353	233	472	118	308
TDS	mg/L	1020	1020	1190	207	641	668	442	839	304	560
APPENDIX IV											
Antimony	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Arsenic	mg/L	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037
Barium	mg/L	0.013	0.017	0.020	0.051	0.021	0.075	0.019	0.020	0.023	0.046
Beryllium	mg/L	0.013	0.014	0.0016	< 0.000054	0.00054	< 0.000054	0.00074	0.0016	0.000066 J	< 0.000054
Cadmium	mg/L	0.00080	0.0010	0.00059	0.00015 J	0.00035 J	< 0.00011	0.00072	< 0.00011	< 0.00011	< 0.00011
Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Cobalt	mg/L	0.034	0.041	0.0029 J	< 0.00039	0.031	0.0032 J	0.010	0.18	< 0.00039	0.0010 J
Lead	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Lithium	mg/L	0.0095 J	0.013 J	0.0045 J	0.00097 J	0.0023 J	0.015 J	0.0091 J	0.040	0.0045 J	0.012 J
Mercury	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00074	< 0.00074	< 0.00074	0.00075 J	< 0.00074	< 0.00074	< 0.00074	0.00092 J	< 0.00074	< 0.00074
Combined Radium 226 + 228	pCi/L	1.41	1.05	1.06 U	1.22	0.326 U	1.57	1.25	13.9	0.610 U	0.907 U
Selenium	mg/L	0.0049 J	0.0071	0.0031 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0016 J	< 0.0014	< 0.0014
Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00028 J	< 0.00018	< 0.00018
Fluoride	mg/L	0.26	0.26	0.085 J	0.10	< 0.050	< 0.050	0.10	0.30	0.067 J	< 0.050
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	< 5.0	9.5	60.3	76.8	< 5.0	38.3	13.5	73.0	35.2	28.4
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	< 5.0	9.5	60.3	76.8	< 5.0	38.3	13.5	73.0	35.2	28.4
Iron	mg/L	0.080	< 0.025	< 0.025	0.081	21.7	1.2	< 0.025	10.7	< 0.025	0.36
Ferrous (II) Iron	mg/L	0.0	0.0	0.0	0.0	7.0	1.0	0.0	6.5	0.0	0.25
Magnesium	mg/L	27.0	25.5	35.8	2.8	46.9	36.8	16.0	25.6	16.6	27.9
Potassium	mg/L	6.4	6.3	5.7	5.0	1.3	7.2	5.9	8.4	3.5	6.1
Sodium	mg/L	29.6	26.1	41.8	4.2	28.1	24.2	17.9	19.8	13.7	19.1
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5A
Groundwater Analytical Data Summary – September 2023
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-108D	B-111D	B-120D	B-122D	B-125D
	Sample Date	09/13/2023	09/13/2023	09/12/2023	09/07/2023	09/14/2023
ANALYTE	UNITS					
APPENDIX III						
Boron	mg/L	6.4	0.23	1.0	0.26	1.1
Calcium	mg/L	83.9	93.4	110	52.3	140
Chloride	mg/L	29.9	10.2	6.0	12.6	5.9
Fluoride	mg/L	< 0.050	0.36	< 0.050	0.22	< 0.050
pH, Field	SU	5.88	7.01	5.27	5.94	5.84
Sulfate	mg/L	296	233	420	110	465
TDS	mg/L	607	506	743	324	853
APPENDIX IV						
Antimony	mg/L	< 0.0012	0.0016 J	< 0.0012	< 0.0012	< 0.0012
Arsenic	mg/L	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037
Barium	mg/L	0.051	0.031	0.021	0.044	0.058
Beryllium	mg/L	< 0.000054	< 0.000054	0.00066	0.00049 J	0.00013 J
Cadmium	mg/L	< 0.00011	< 0.00011	0.0010	< 0.00011	< 0.00011
Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Cobalt	mg/L	0.00045 J	< 0.00039	0.0022 J	0.011	0.0052
Lead	mg/L	0.0025	< 0.00012	< 0.00012	< 0.00012	0.00015 J
Lithium	mg/L	0.014 J	0.019 J	0.044	0.013 J	0.031
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.00078 J	0.0071 J	< 0.00074	0.0010 J	0.0034 J
Combined Radium 226 + 228	pCi/L	1.12	8.60	1.74	14.9	2.41
Selenium	mg/L	< 0.0014	< 0.0014	0.0052	< 0.0014	< 0.0014
Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Fluoride	mg/L	< 0.050	0.36	< 0.050	0.22	< 0.050
Additional Parameters						
Bicarbonate Alkalinity as CaCO3	mg/L	28.1	115	26.6	111	75.6
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	28.1	115	26.6	111	75.6
Iron	mg/L	0.38	2.1	0.14	11.3	4.8
Ferrous (II) Iron	mg/L	0.5	2.0	0.0	7.0	7.0
Magnesium	mg/L	32.5	8.5	22.5	10.1	26.8
Potassium	mg/L	5.6	6.1	8.0	3.6	10.4
Sodium	mg/L	18.1	39.8	27.5	23.7	42.0
Sulfide	mg/L	< 0.022	0.036 J	< 0.022	0.026 J	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5B
Groundwater Analytical Data Summary – January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWA-53	DGWA-71	DGWC-2	DGWC-4	DGWC-5	DGWC-8	DGWC-10	DGWC-11	DGWC-12	DGWC-13
	Sample Date	01/30/2024	01/30/2024	02/01/2024	02/01/2024	02/01/2024	02/01/2024	02/02/2024	02/01/2024	02/02/2024	01/31/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.065	0.015 J	0.37	4.3	2.5	0.69	0.17	1.5	0.41	0.63
Calcium	mg/L	13.7	6.1	33.3	268	146	30.6	79.3	55.1	31.7	30.8
Chloride	mg/L	1.6	8.2	1.9	8.7	11.6	10.5	9.2	11.1	6.9	11.1
Fluoride	mg/L	0.070 J	< 0.050	0.067 J	< 0.050	0.12	0.064 J	1.2	< 0.050	0.12	0.079 J
pH, Field	SU	6.28	5.79	6.02	5.67	4.78	5.21	4.72	5.49	6.06	5.74
Sulfate	mg/L	13.4	7.9	97.6	824	539	138	336	260	134	100
TDS	mg/L	130	86.0	220	1450	948	272	548	463	274	216
APPENDIX IV											
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	0.0028 J	0.00068 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0063	< 0.00084	< 0.00084	< 0.00084
Barium	mg/L	0.096	0.029	0.024	0.032	0.016	0.020	0.018 J	0.038	0.054	0.024
Beryllium	mg/L	< 0.000094	0.000098 J	< 0.000094	0.00039 J	0.0075	0.0010	0.0069	0.00019 J	< 0.000094	< 0.000094
Cadmium	mg/L	< 0.00010	< 0.00010	< 0.00010	0.00099	0.0012	0.0011	0.00039 J	0.00017 J	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.0083	< 0.00032	0.0027 J	0.0016 J	0.015	0.0013 J	0.064	0.00082 J	0.015	< 0.00032
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00082	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	0.0087 J	< 0.0016	0.017 J	0.0038 J	0.0075 J	0.0031 J	0.0042 J	0.0016 J	< 0.0016	0.0035 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00024	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.025	< 0.00062	0.0024 J	0.0027 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0081 J
Combined Radium 226 + 228	pCi/L	0.478 U	0.305 U	1.06	1.39	1.18	1.18	1.50	0.104 U	0.686 U	1.04 U
Selenium	mg/L	< 0.00096	< 0.00096	0.0014 J	< 0.00096	0.0017 J	< 0.00096	0.031	< 0.00096	< 0.00096	0.0039 J
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.0019	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.070 J	< 0.050	0.067 J	< 0.050	0.12	0.064 J	1.2	< 0.050	0.12	0.079 J
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	66.5	17.8	45.5	98.8	5.6	7.3	< 5.0	15.4	51.1	22.5
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	66.5	17.8	45.5	98.8	5.6	7.3	< 5.0	15.4	51.1	22.5
Iron	mg/L	10.1	< 0.025	0.19	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	22.8	0.037 J
Ferrous (II) Iron	mg/L	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7 .0	0.0
Magnesium	mg/L	4.7	0.91	7.4	38.5	26.1	15.8	5.2	27.8	18.1	7.2
Potassium	mg/L	3.6	0.81	5.4	10.7	5.5	4.2	4.7	4.3	9.9	4.4
Sodium	mg/L	6.3	7.8	9.2	57.2	26.8	12.7	11.3	20.5	9.2	17.0
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection. DGWA-70A was not accessible for sampling due to construction during this event.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5B
Groundwater Analytical Data Summary – January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-42	DGWC-47
	Sample Date	02/05/2024	02/05/2024	02/06/2024	02/01/2024	02/01/2024	01/31/2024	01/31/2024	01/31/2024	01/30/2024	02/05/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.13	1.6	0.93	2.4	2.7	6.5	4.5	5.3	1.1	0.13
Calcium	mg/L	12.7	32.8	19.7	113	112	85.3	57.1	95.7	29.9	23.9
Chloride	mg/L	3.7	20.4	18.0	14.2	27.2	17.8	16.0	12.5	18.1	2.2
Fluoride	mg/L	0.054 J	0.065 J	0.10	0.19	1.4	< 0.050	< 0.050	0.074 J	< 0.050	0.53
pH, Field	SU	5.69	5.86	5.07	4.98	4.49	5.67	5.71	5.95	5.18	4.11
Sulfate	mg/L	44.0	124	261	394	628	267	224	279	294	118
TDS	mg/L	127	288	477	656	1050	503	423	564	551	253
APPENDIX IV											
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	< 0.00084	< 0.00084	0.00088 J	0.025	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0010 J
Barium	mg/L	0.057	0.037	0.027	0.024	0.015 J	0.024	0.030	0.023	0.015	0.018
Beryllium	mg/L	< 0.000094	< 0.000094	0.00058	0.0015	0.0078	0.00017 J	0.00013 J	0.00048 J	0.0024	0.0074
Cadmium	mg/L	< 0.00010	< 0.00010	0.00027 J	0.00029 J	0.0030	0.00057	0.00055	0.00012 J	0.0010	0.0011
Chromium	mg/L	< 0.0019	< 0.0019	0.0029 J	0.0024 J	0.0021 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	< 0.00032	0.0019 J	0.018	0.056	1.3	0.0097	0.0067	0.00070 J	0.0076	0.18
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.0016	< 0.00016	< 0.00016	< 0.00016	0.00017 J	0.00029 J
Lithium	mg/L	0.0046 J	0.0059 J	< 0.0016	0.0024 J	0.012 J	0.0065 J	0.0037 J	0.0024 J	0.0078 J	0.046
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0069 J	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	0.651 U	0.698 U	0.234 U	0.347 U	1.38	0.542 U	0.395 U	1.10	0.822 U	1.39
Selenium	mg/L	0.0019 J	0.0010 J	0.0081	0.0051	0.082	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0032 J
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	0.00057 J	< 0.0038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.054 J	0.065 J	0.10	0.19	1.4	< 0.050	< 0.050	0.074 J	< 0.050	0.53
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	16.2	17.6	5.5	< 5.0	< 5.0	31.5	24.8	80.8	7.5	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	16.2	17.6	5.5	< 5.0	< 5.0	31.5	24.8	80.8	7.5	< 5.0
Iron	mg/L	0.062	0.11	0.21	0.087	< 0.13	< 0.025	< 0.025	0.025 J	0.078	2.5
Ferrous (II) Iron	mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Magnesium	mg/L	5.0	13.6	55.4	11.4	23.1	18.2	20.7	23.4	23.3	6.9
Potassium	mg/L	3.4	4.3	3.8	4.5	13.7	6.4	5.9	6.7	4.9	5.3
Sodium	mg/L	7.2	19.2	17.5	40.5	19.5	22.8	24.7	23.4	70.8	6.9
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection. DGWA-70A was not accessible for sampling due to construction during this event.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5B
Groundwater Analytical Data Summary – January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	DGWC-48	B-56	B-62	B-63	B-66	B-77	B-82	B-83	B-88	B-92
	Sample Date	02/05/2024	02/05/2024	02/01/2024	02/01/2024	02/01/2024	02/05/2024	02/01/2024	02/01/2024	02/05/2024	01/30/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.46	1.6	0.083	0.45	2.1	0.28	0.36	0.39	2.4	3.1
Calcium	mg/L	61.7	22.5	33.2	22.6	43.5	19.0	55.7	33.1	118	126
Chloride	mg/L	6.1	6.9	5.6	6.3	9.0	3.2	11.9	2.4	8.9	15.0
Fluoride	mg/L	0.43	0.34	0.14	0.12	0.10	0.067 J	0.093 J	0.073 J	< 0.050	0.23
pH, Field	SU	4.33	4.71	6.41	5.84	6.17	6.53	5.61	5.65	5.48	4.64
Sulfate	mg/L	258	236	49.4	57.0	256	0.78 J	368	98.3	433	557
TDS	mg/L	496	421	205	185	498	122	641	212	802	952
APPENDIX IV											
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	0.0042 J	< 0.00084	< 0.00084	< 0.00084	0.0014 J	< 0.00084	< 0.00084	< 0.00084	0.0021 J
Barium	mg/L	0.013	0.026	0.017	0.062	0.025	0.11	0.024	0.027	0.015	0.018
Beryllium	mg/L	0.0055	0.0013	0.00015 J	0.00035 J	< 0.000094	< 0.000094	0.0016	0.00038 J	0.0015	0.016
Cadmium	mg/L	0.0022	0.00036 J	< 0.00010	0.00014 J	0.00018 J	< 0.00010	0.00072	0.00027 J	0.0023	0.0013
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	0.0023 J	< 0.0019	< 0.0019
Cobalt	mg/L	0.27	0.070	< 0.00032	0.030	0.019	0.00032 J	0.0021 J	0.017	0.0018 J	0.060
Lead	mg/L	0.00077 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00066 J	< 0.00016	< 0.00016	0.00073 J	< 0.00016
Lithium	mg/L	0.083	0.0061 J	0.0094 J	0.0052 J	< 0.0016	< 0.0016	< 0.0016	0.0023 J	0.0044 J	0.014 J
Mercury	mg/L	< 0.00013	0.00029	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00015 J
Molybdenum	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	1.55	0.988 U	2.08	0.922 U	0.294 U	0.952 U	0.485 U	0.466 U	1.09 U	1.63
Selenium	mg/L	0.0017 J	0.020	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0028 J	0.017	0.0039 J	0.019
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.43	0.34	0.14	0.12	0.10	0.067 J	0.093 J	0.073 J	< 0.050	0.23
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	86.5	80.9	64.1	117	20.4	39.4	14.0	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	86.5	80.9	64.1	117	20.4	39.4	14.0	< 5.0
Iron	mg/L	3.8	0.083	5.3	7.0	0.50	42.6	0.069	0.058	0.086	< 0.025
Ferrous (II) Iron	mg/L	2.5	0.0	6.0	7.0	0.5	7.0	0.0	0.0	0.0	0.0
Magnesium	mg/L	14.1	34.7	4.7	7.7	40.7	6.3	62.3	9.2	40.8	23.2
Potassium	mg/L	13.5	5.0	2.6	2.9	5.6	2.2	7.9	2.2	11.5	6.6
Sodium	mg/L	18.7	20.1	10.6	12.3	29.2	6.3	18.9	10.2	29.0	25.1
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection. DGWA-70A was not accessible for sampling due to construction during this event.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5B
Groundwater Analytical Data Summary – January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-93	B-97	B-98	B-100	B-101D	B-102D	B-104D	B-106D	B-107D
	Sample Date	01/30/2024	01/31/2024	01/30/2024	01/31/2024	02/02/2024	02/02/2024	02/05/2024	02/02/2024	02/01/2024
ANALYTE	UNITS									
APPENDIX III										
Boron	mg/L	3.0	3.7	0.081	0.13	1.3	1.9	0.22	0.86	12.0
Calcium	mg/L	140	200	32.7	24.3	92.4	64.5	157	28.9	78.9
Chloride	mg/L	17.1	17.3	4.4	7.5	9.9	10.3	7.1	8.1	14.4
Fluoride	mg/L	0.18	0.093 J	0.13	0.063 J	0.063 J	0.081 J	0.29	0.059 J	< 0.050
pH, Field	SU	4.72	5.53	6.65	5.35	6.75	5.45	6.26	5.83	5.84
Sulfate	mg/L	550	667	9.2	340	353	222	449	112	299
TDS	mg/L	992	1150	154	582	649	414	830	252	580
APPENDIX IV										
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.00062 J	0.0010 J	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.00093 J	< 0.00084	< 0.00084
Barium	mg/L	0.014	0.022	0.048	0.019	0.071	0.019	0.018	0.023	0.040
Beryllium	mg/L	0.013	0.0017	< 0.000094	0.00047 J	< 0.000094	0.00081	0.0014	0.00010 J	< 0.000094
Cadmium	mg/L	0.00080	0.00064	< 0.00010	0.00033 J	< 0.00010	0.00061	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/L	0.0024 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.031	0.0032 J	< 0.00032	0.065	0.0026 J	0.0088	0.16	< 0.00032	0.00088 J
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00047 J	< 0.00016	< 0.00016
Lithium	mg/L	0.010 J	0.0046 J	< 0.0016	< 0.0016	0.015 J	0.010 J	0.037	0.0051 J	0.014 J
Mercury	mg/L	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	< 0.00062	0.00095 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium 226 + 228	pCi/L	1.04 U	1.40	0.597 U	0.0563 U	1.15	0.277 U	15.2	0.203 U	0.666 U
Selenium	mg/L	0.0063	0.0032 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0015 J	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.18	0.093 J	0.13	0.063 J	0.063 J	0.081 J	0.29	0.059 J	< 0.050
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	10.3	57.7	98.8	28.8	38.9	14.4	69.3	34.4	27.2
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	10.3	57.7	98.8	28.8	38.9	14.4	69.3	34.4	27.2
Iron	mg/L	< 0.025	< 0.025	0.088	10.5	0.39	0.029 J	11.3	< 0.025	0.31
Ferrous (II) Iron	mg/L	0.0	0.0	0.0	6.0	0.5	0.0	7.0	0.0	0.25
Magnesium	mg/L	26.0	34.3	2.1	25.4	35.3	13.7	27.9	13.1	30.1
Potassium	mg/L	6.6	5.5	6.1	0.84	7.0	5.7	8.2	3.4	5.8
Sodium	mg/L	29.2	39.5	2.8	19.3	27.2	19.7	19.4	13.6	20.5
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	0.025 J	< 0.022	< 0.022

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection. DGWA-70A was not accessible for sampling due to construction during this event.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 5B
Groundwater Analytical Data Summary – January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

	Sample Location	B-108D	B-111D	B-120D	B-122D	B-125D
	Sample Date	02/01/2024	02/05/2024	02/05/2024	02/01/2024	02/05/2024
ANALYTE	UNITS					
APPENDIX III						
Boron	mg/L	6.0	0.25	1.5	0.28	0.95
Calcium	mg/L	75.3	102	115	53.6	10.5
Chloride	mg/L	28.9	20.3	5.7	12.7	9.8
Fluoride	mg/L	0.13	0.40	0.061 J	0.18	0.068 J
pH, Field	SU	5.70	7.11	5.26	6.01	6.06
Sulfate	mg/L	337	235	374	127	434
TDS	mg/L	629	586	710	361	864
APPENDIX IV						
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	0.00060 J	< 0.00054
Arsenic	mg/L	0.0080	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/L	0.048	0.025	0.033	0.052	0.050
Beryllium	mg/L	0.00058	< 0.000094	0.00089	0.00045 J	< 0.000094
Cadmium	mg/L	0.00018 J	< 0.00010	0.00097	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.12	< 0.00032	0.0018 J	0.0087	0.0039 J
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	0.015 J	0.022 J	0.057	0.013 J	0.028 J
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	< 0.00062	0.010	< 0.00062	0.0011 J	0.0033 J
Combined Radium 226 + 228	pCi/L	1.11	1.33	1.93	14.6	2.43
Selenium	mg/L	0.025	< 0.00096	0.0045 J	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.13	0.40	0.061 J	0.18	0.068 J
Additional Parameters						
Bicarbonate Alkalinity as CaCO3	mg/L	20.1	116	25.3	108	93.1
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	20.1	116	25.3	108	93.1
Iron	mg/L	2.2	0.092	< 0.025	10.7	2.2
Ferrous (II) Iron	mg/L	0.5	1.5	0.0	7.0	6.5
Magnesium	mg/L	28.6	10.0	24.6	10.3	7.7
Potassium	mg/L	6.0	10.9	8.3	4.2	3.1
Sodium	mg/L	17.8	49.1	27.7	25.6	10.1
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	0.053 J

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. DGWC-9 was dry and was not sampled at time of collection. DGWA-70A was not accessible for sampling due to construction during this event.
5. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
6. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
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 6A
Surface Water Analytical Data Summary – September 2023
Georgia Power Company
Plant McDonough - Ash Ponds 2 and 3/4
Cobb County, GA

Sample Location		CR+0.4	CR+0.2	Dewatering Downstream (DW_DS)	Dewatering Upstream (DW_US)	CR-0.1	CR-0.2	CR-0.5
Sample Date		09/12/2023	09/12/2023	09/12/2023	09/12/2023	09/12/2023	09/12/2023	09/12/2023
ANALYTE	UNITS							
APPENDIX III								
Boron	mg/L	0.041	< 0.040	0.050	< 0.040	0.043	< 0.040	< 0.040
Calcium	mg/L	6.7	6.9	7.1	6.4	7.0	6.8	6.5
Chloride	mg/L	9.1	9.2	9.6	9.0	9.5	9.2	9.2
Fluoride	mg/L	0.13	0.13	0.13	< 0.10	0.13	0.11	< 0.10
Sulfate	mg/L	6.8	6.6	7.8	6.2	7.1	6.4	6.2
TDS	mg/L	47.0	65.0	63.0	46.0	50.0	53.0	50.0
APPENDIX IV								
Arsenic	mg/L	< 0.0050	NA	NA	NA	NA	NA	NA
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
Major Ions								
Alkalinity Total as CaCO3	mg/L	25.7	26.5	25.7	25.7	27.0	25.3	25.5
Bicarbonate Alkalinity as CaCO3	mg/L	25.7	26.5	25.7	25.7	27.0	25.3	25.5
Magnesium	mg/L	2.1	2.2	2.3	2.0	2.2	2.2	2.1
Potassium	mg/L	3.3	3.4	3.3	3.2	3.4	3.4	3.2
Sodium	mg/L	8.8	9.2	9.4	8.5	9.4	9.0	8.6

Notes:
mg/L - milligrams per liter
NA - Indicates not analyzed
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.

Table 6B
Surface Water Analytical Data Summary – February 2024
Georgia Power Company
Plant McDonough - Ash Ponds 2 and 3/4
Cobb County, GA

Sample Location		CR+0.4	CR+0.2	Dewatering Downstream (DW_DS)	Dewatering Upstream (DW_US)	CR-0.1	CR-0.2	CR-0.5
Sample Date		02/06/2024	02/06/2024	02/06/2024	02/06/2024	02/06/2024	02/06/2024	02/06/2024
ANALYTE	UNITS							
APPENDIX III								
Boron	mg/L	0.061	0.044	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Calcium	mg/L	9.4	8.9	8.4	8.6	8.7	8.7	8.5
Chloride	mg/L	12.8	12.5	12.5	12.4	12.4	12.5	12.6
Fluoride	mg/L	0.13	0.12	0.12	0.12	0.12	0.12	0.12
Sulfate	mg/L	10.2	8.6	8.0	7.9	7.8	7.9	7.9
TDS	mg/L	94.0	94.0	85.0	90.0	86.0	84.0	87.0
APPENDIX IV								
Arsenic	mg/L	< 0.0050	NA	NA	NA	NA	NA	NA
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
Major Ions								
Alkalinity Total as CaCO3	mg/L	32.9	32.7	33.0	31.9	32.0	32.6	32.4
Bicarbonate Alkalinity as CaCO3	mg/L	32.9	32.7	33.0	31.9	32.0	32.6	32.4
Magnesium	mg/L	2.7	2.5	2.4	2.4	2.4	2.5	2.4
Potassium	mg/L	3.7	3.7	3.6	3.5	3.7	3.7	3.4
Sodium	mg/L	11.8	11.4	11.0	10.9	11.2	11.3	10.9

Notes:
mg/L - milligrams per liter
NA - Indicates not analyzed
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.

Table 7
Summary of Background Levels and GWPS
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, GA

Analyte	Units	EPA MCL	Federal Regional Screening Level (RSL)	Background September 2023[1]	GWPS September 2023	Background January-February 2024[1]	GWPS Janury-February 2024
Antimony	mg/L	0.006		0.0045[2]	0.006	0.0045[2]	0.006
Arsenic	mg/L	0.01		0.0054[2]	0.01	0.0054[2]	0.01
Barium	mg/L	2		0.19	2	0.19	2
Beryllium	mg/L	0.004		0.0009[2]	0.004	0.0009[2]	0.004
Cadmium	mg/L	0.005		0.0005[2]	0.005	0.0005[2]	0.005
Chromium	mg/L	0.1		0.005[2]	0.1	0.005[2]	0.1
Cobalt	mg/L	NA	0.006	0.032	0.032	0.024	0.024
Fluoride	mg/L	4		0.42	4	0.42	4
Lead	mg/L	NA	0.015	0.001[2]	0.015	0.001[2]	0.015
Lithium	mg/L	NA	0.04	0.03	0.04	0.03	0.04
Mercury	mg/L	0.002		0.0002[2]	0.002	0.0002[2]	0.002
Molybdenum	mg/L	NA	0.1	0.041[2]	0.1	0.041[2]	0.1
Radium (226 + 228)	pCi/L	5		4.87	5	4.74	5
Selenium	mg/L	0.05		0.005[2]	0.05	0.005[2]	0.05
Thallium	mg/L	0.002		0.001[2]	0.002	0.001[2]	0.002

Notes:

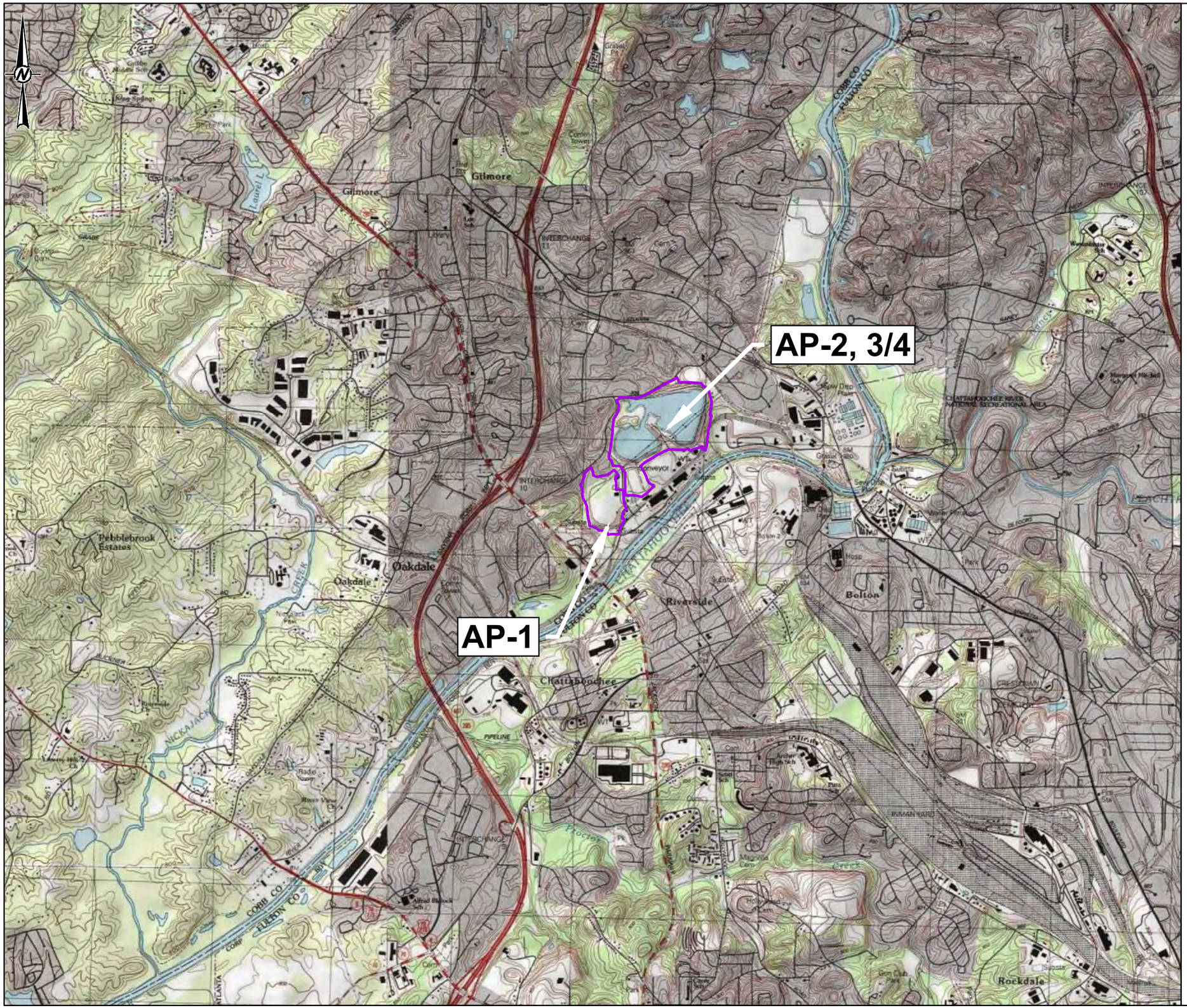
mg/L = milligrams per liter; pCi/L = picocuries per liter; NA = Not Available

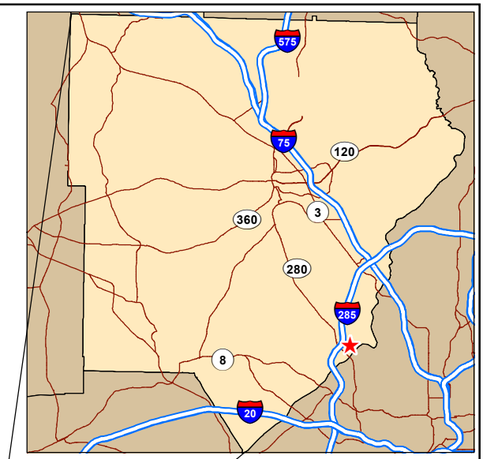
GWPS = Groundwater Protection Standard; EPA MCL = Environmental Protection Agency Maximum Contaminant Level

[1] The background limits are used when determining the ground water 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

0 0.5 1

1 INCH=0.5 MILES

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE LOCATION MAP

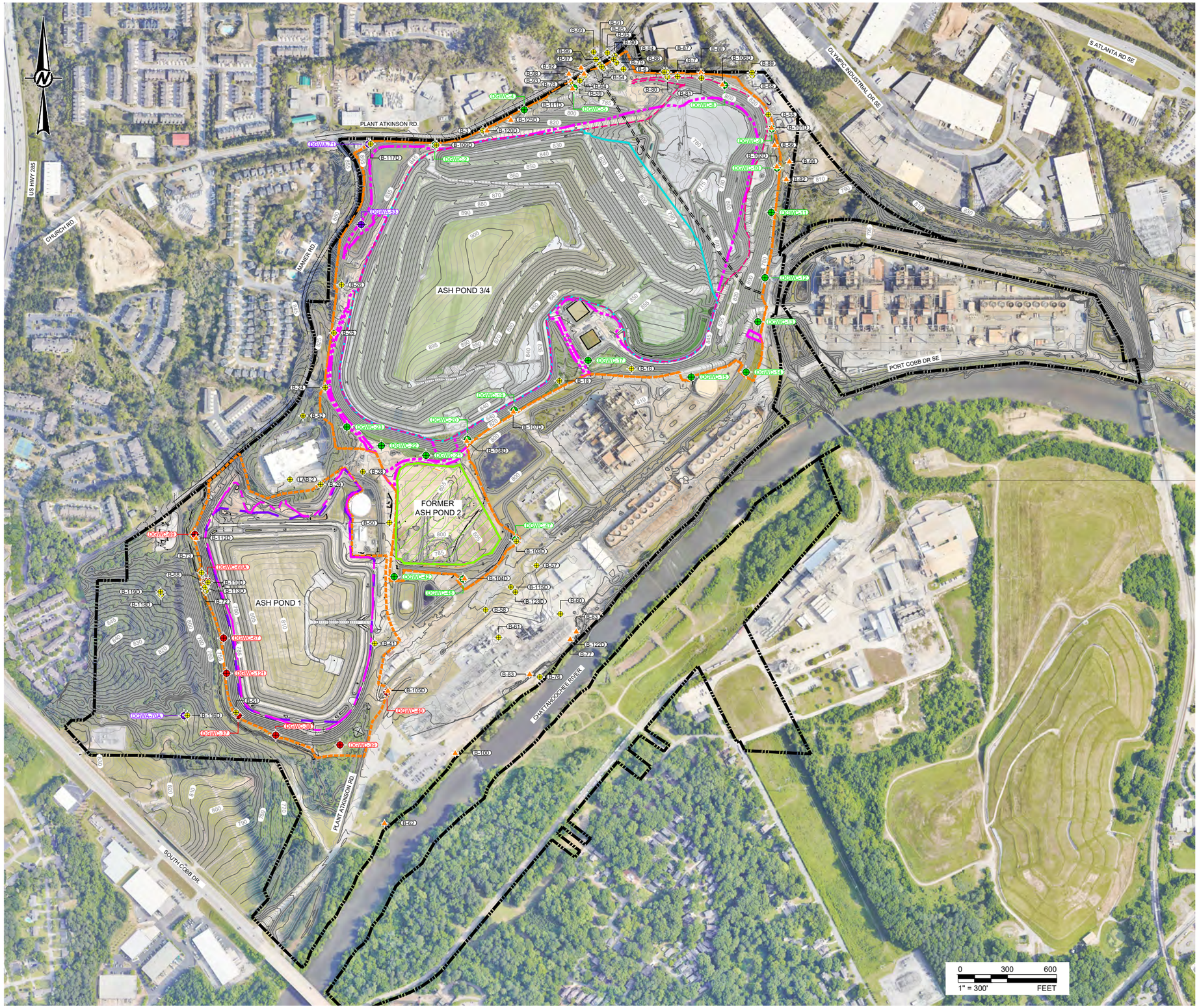
CONSULTANT
wsp

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

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 1



LEGEND

- EXISTING CONTOURS (SEE REFERENCE 2)
- PROPERTY BOUNDARY (SEE REFERENCE 1)
- APPROXIMATE PRE-CLOSURE CCR LIMITS
- FINAL CLOSURE CCR LIMITS
- PERMIT BOUNDARY
- FINAL COVER SYSTEM LIMITS
- POST CLOSURE CCR LIMITS
- UPGRADIENT WELL
- AP-1 MONITORING WELL
- AP-2, 3/4 MONITORING WELL
- ASSESSMENT WELLS
- PIEZOMETER
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2024

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 2017. COMPLETION OF FINAL POST COVER CONSTRUCTION ACTIVITIES AND IMPROVEMENTS AT AP-1 ARE SUBSTANTIALLY COMPLETE. A PLANNED BARRIER WALL INSTALLATION IS CURRENTLY UNDER REVIEW WITH EPD.
3. 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 2017. BACKFILLING OF THE AP-2 FOOTPRINT WAS COMPLETE IN Q4 2023.
4. CLOSURE ACTIVITIES FOR AP-3 AND AP-4 WERE INITIATED IN JANUARY 2016. AP-3 AND AP-4 ARE CURRENTLY UNDERGOING CLOSURE AS A COMBINED UNIT AP-3/4.
5. DATA PRESENTED FOR CCR UNIT AP-1 IS INCLUDED FOR REFERENCE ONLY. THIS DATA SHOULD NOT BE CONSIDERED FOR PERMITTING OF CCR UNITS AP-2 AND AP-3/4.

REFERENCES

1. APPROXIMATE PROPERTY BOUNDARY PROVIDED BY SOUTHERN COMPANY SERVICES (2017).
2. THE EXISTING TOPOGRAPHY, AND CONTOUR ELEVATIONS 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 IS AUGUST 31, 2022, ON AP-2, 3/4 IS NOVEMBER 2, 2022. AERIAL IMAGERY DATE FOR AP-3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP-1, AP-2 AND SURROUNDING AREAS OF AP- 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023. 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.
4. SELECT BORING/PIEZOMETER LOCATIONS AND ELEVATIONS RESURVEYED BY METRO ENGINEERING & SURVEYING CO., INC., 2020-2021.
6. COORDINATES SYSTEM: NAD 1983 STATE PLANE GEORGIA WEST (U.S. FEET); ELEVATIONS DISPLAY IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (FEET NAVD88).

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH - ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT - ASH POND 2 AND 3/4

TITLE
PLANT MCDONOUGH CCR REMOVAL AREA

CONSULTANT
wsp

YYYY-MM-DD	2024-01-05
DESIGNED	SEB
PREPARED	CRP
CHECKED	DLP
REVIEWED / APPROVED	RNQ

PROJECT NO. 31406440.MCD23
REV.
FIGURE 2

0 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 WELL
- PIEZOMETER
- DEWATERING WELL
- SURFACE WATER MONITORING LOCATION
- STAFF GUAGE
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. PIEZOMETERS B-31 AND B-74 WERE DECOMMISSIONED AND ABANDONED IN OCTOBER 2023.

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.

0 600 1,200

1 IN= 600 FT

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

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
MONITORING WELL, PIEZOMETER AND SURFACE WATER LOCATION MAP

CONSULTANT

wsp

YYYY-MM-DD	2024-07-08
PREPARED	YCS
DESIGN	DLP
CHECKED	DP/RPK
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 3



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- DEWATERING WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- 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 MEAUSREMENTS OBTAINED SEPTEMBER 5, 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 IMAGERY DATE FOR AP-3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP-1, AP-2 AND SURROUNDING AREAS OF AP- 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023.

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

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

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP – SEPTEMBER 5, 2023

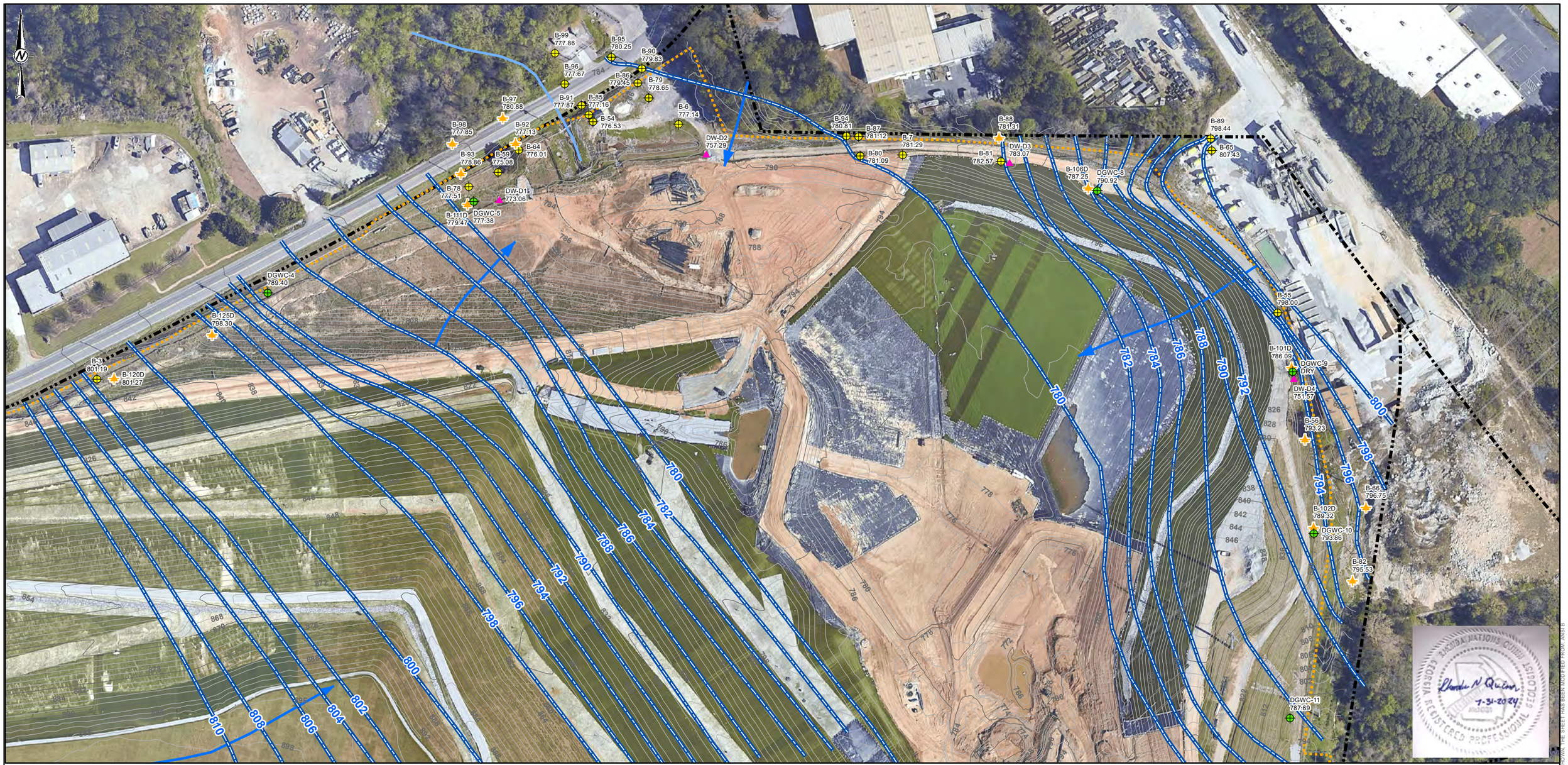
CONSULTANT
wsp

YYYY-MM-DD	2024-05-02
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No.
31406440.MCD23

Rev.
0

FIGURE
4A



LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER ELEVATION MEAUSREMENTS OBTAINED SEPTEMBER 5, 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 IMAGERY DATE FOR AP-3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP-1, AP-2 AND SURROUNDING AREAS OF AP- 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023.

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 2022 AND 2023.

0 140 280

1"=140 FT FEET

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP
SEPTEMBER 5, 2023

CONSULTANT

YYYY-MM-DD	2024-05-02
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RNQ

PROJECT NO. CONTROL
31406440.MCD23

REV.
0

FIGURE
4B

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



LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER ELEVATION MEAUSREMENTS OBTAINED JANUARY 29, 2024 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 IMAGERY DATE FOR AP-3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP-1, AP-2 AND SURROUNDING AREAS OF AP- 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023.

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, APRIL 2021, MAY 2022, AND MAY 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP – JANUARY 29, 2024

CONSULTANT
wsp

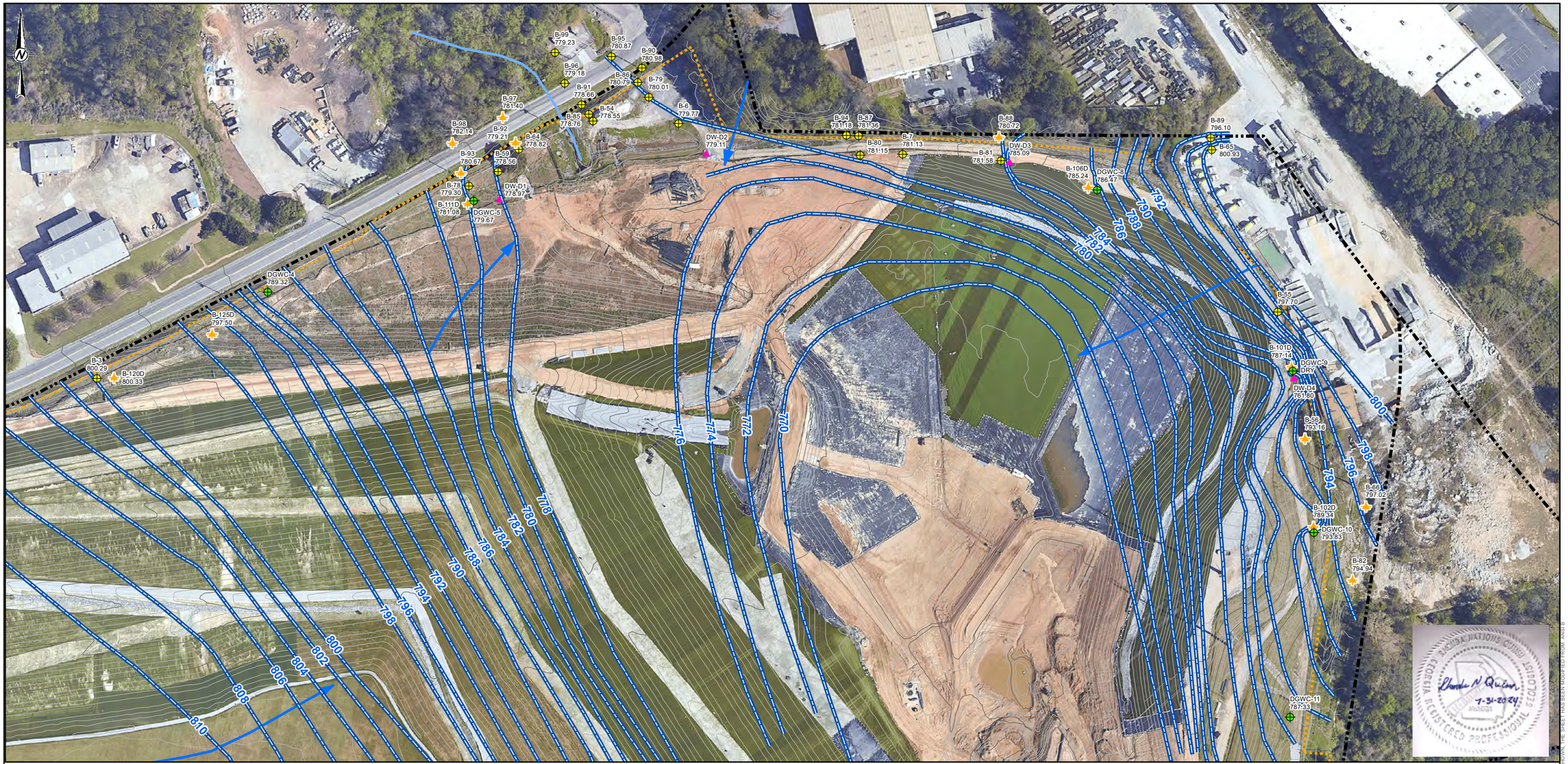
YYYY-MM-DD	2024-07-08
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No.
31406440.MCD23

Rev.
0

FIGURE
5A

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



LEGEND

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

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

2. GROUNDWATER ELEVATION MEAUSREMENTS OBTAINED JANUARY 29, 2024 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 IMAGERY DATE FOR AP-3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP-1, AP-2 AND SURROUNDING AREAS OF AP- 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023.

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 2022 AND 2023.

0 140 280

1"=140 FT FEET

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT-ASH POND 2 AND 3/4

TITLE
(INSET) SITE POTENTIOMETRIC MAP
JANUARY 29, 2024

CONSULTANT

YYYY-MM-DD	2024-07-09
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEW/APPROVED	RNQ

PROJECT NO. CONTROL
31406440.MCD23

REV. 0

FIGURE **5B**

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 0.01 ARSENIC GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEP 2023)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.

3. DATA SHOWN REPRESENT THE SEPTEMBER 2023 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2023 WATER LEVELS.

Analyte	Units	GWPS
Arsenic	mg/L	0.01

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 2022 AND 2023.

0 400 800

1 IN= 400 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
ARSENIC ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2023

CONSULTANT

YYYY-MM-DD	2024-05-08
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE 6A

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 0.01 ARSENIC GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.

3. DATA SHOWN REPRESENT THE JANUARY-FEBRUARY 2024 ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2024 WATER LEVELS.

Analyte	Units	GWPS
Arsenic	mg/L	0.01

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 2022 AND 2023.

0 400 800

1 IN= 400 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
ARSENIC ISOCONCENTRATION CONTOUR MAP - JANUARY-FEBRUARY 2024

CONSULTANT

YYYY-MM-DD	2024-06-04
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **6B**

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL

Type

- 0.004 BERYLLIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEP 2023)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.

3. DATA SHOWN REPRESENT THE SEPTEMBER 2023 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2023 WATER LEVELS.

Analyte	Units	GWPS
Beryllium	mg/L	0.004

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
BERYLLIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2023

CONSULTANT
wsp

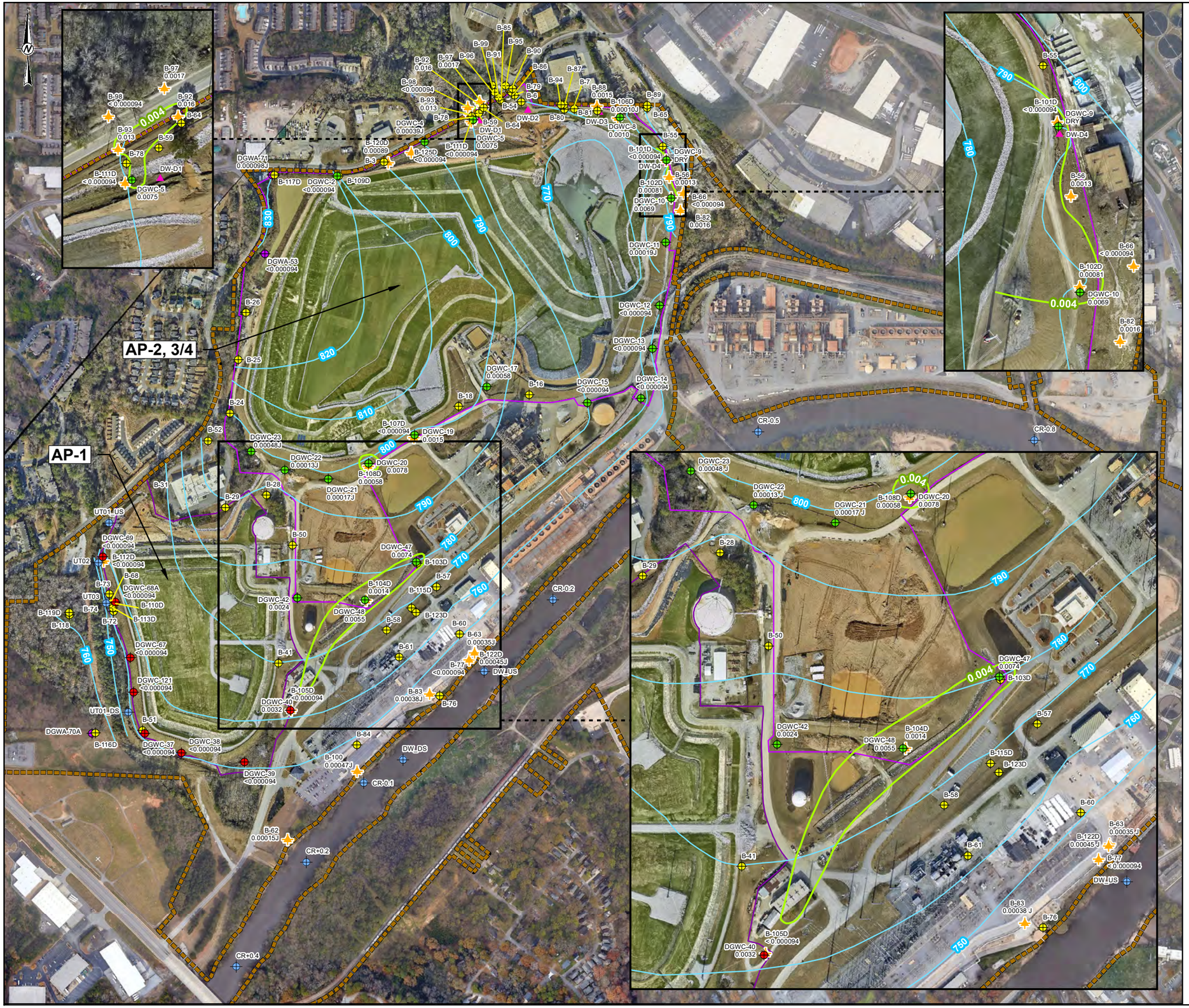
YYYY-MM-DD	2024-05-08
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **7A**

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 0.004 BERYLLIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE

2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.

3. DATA SHOWN REPRESENT THE JANUARY-FEBRUARY 2024 ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.

4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.

5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2024 WATER LEVELS.

Analyte	Units	GWPS
Beryllium	mg/L	0.004

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
BERYLLIUM ISOCONCENTRATION CONTOUR MAP - JANUARY-FEBRUARY 2024

CONSULTANT

YYYY-MM-DD	2024-06-04
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **7B**

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- COBALT GWPS ISOCONCENTRATION CONTOUR
- COBALT GWPS ISOCONCENTRATION CONTOUR (INFERRED)
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEP 2023)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD. RSL = (FEDERAL REGIONAL SCREENING LEVEL)
3. DATA SHOWN REPRESENT THE SEPTEMBER 2023 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. GWPS IS EQUAL TO SITE SPECIFIC BACKGROUND CONCENTRATION AS THERE IS NO MCL AND THE RSL IS BELOW SITE SPECIFIC BACKGROUND
5. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
6. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2023 WATER LEVELS.

Analyte	Units	GWPS
Cobalt	mg/L	0.032

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

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

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
COBALT ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2023

CONSULTANT
wsp

YYYY-MM-DD	2024-06-04
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **8A**



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 0.024 COBALT GWPS ISOCONCENTRATION CONTOUR
- COBALT GWPS ISOCONCENTRATION CONTOUR (INFERRED)
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD. RSL = (FEDERAL REGIONAL SCREENING LEVEL)
3. DATA SHOWN REPRESENT THE JANUARY-FEBRUARY 2024 ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. GWPS IS EQUAL TO SITE SPECIFIC BACKGROUND CONCENTRATION AS THERE IS NO MCL AND THE RSL IS BELOW SITE SPECIFIC BACKGROUND
5. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
6. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2024 WATER LEVELS.

Analyte	Units	GWPS
Cobalt	mg/L	0.024

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

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

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

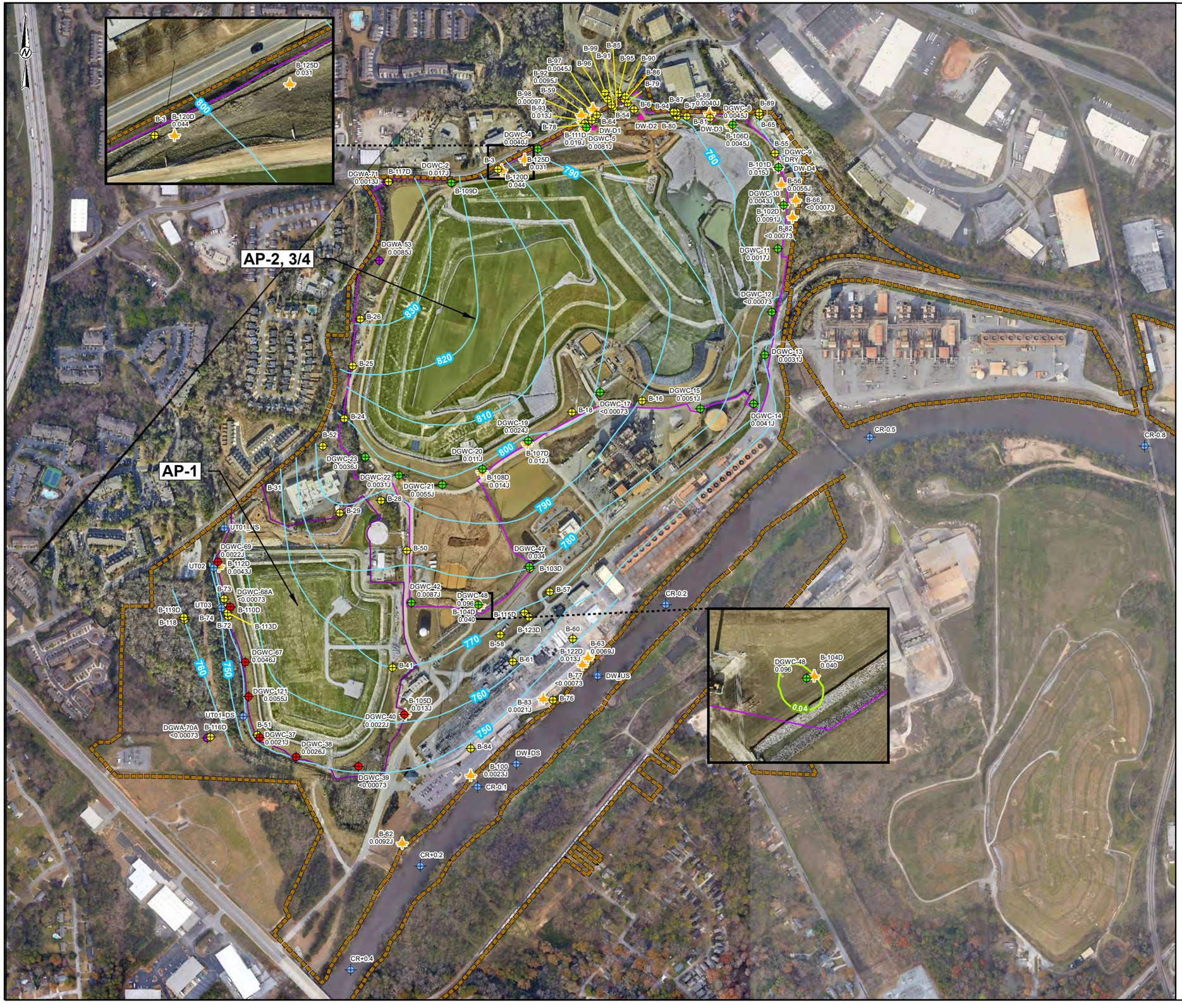
PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
COBALT ISOCONCENTRATION CONTOUR MAP - JANUARY-FEBRUARY 2024

CONSULTANT
wsp

YYYY-MM-DD	2024-06-04
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23
Rev. 0
FIGURE **8B**



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 0.04 LITHIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPT 2023)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE SEPTEMBER 2023 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2023 WATER LEVELS.

Analyte	Units	GWPS
Lithium	mg/L	0.04

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
LITHIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2023

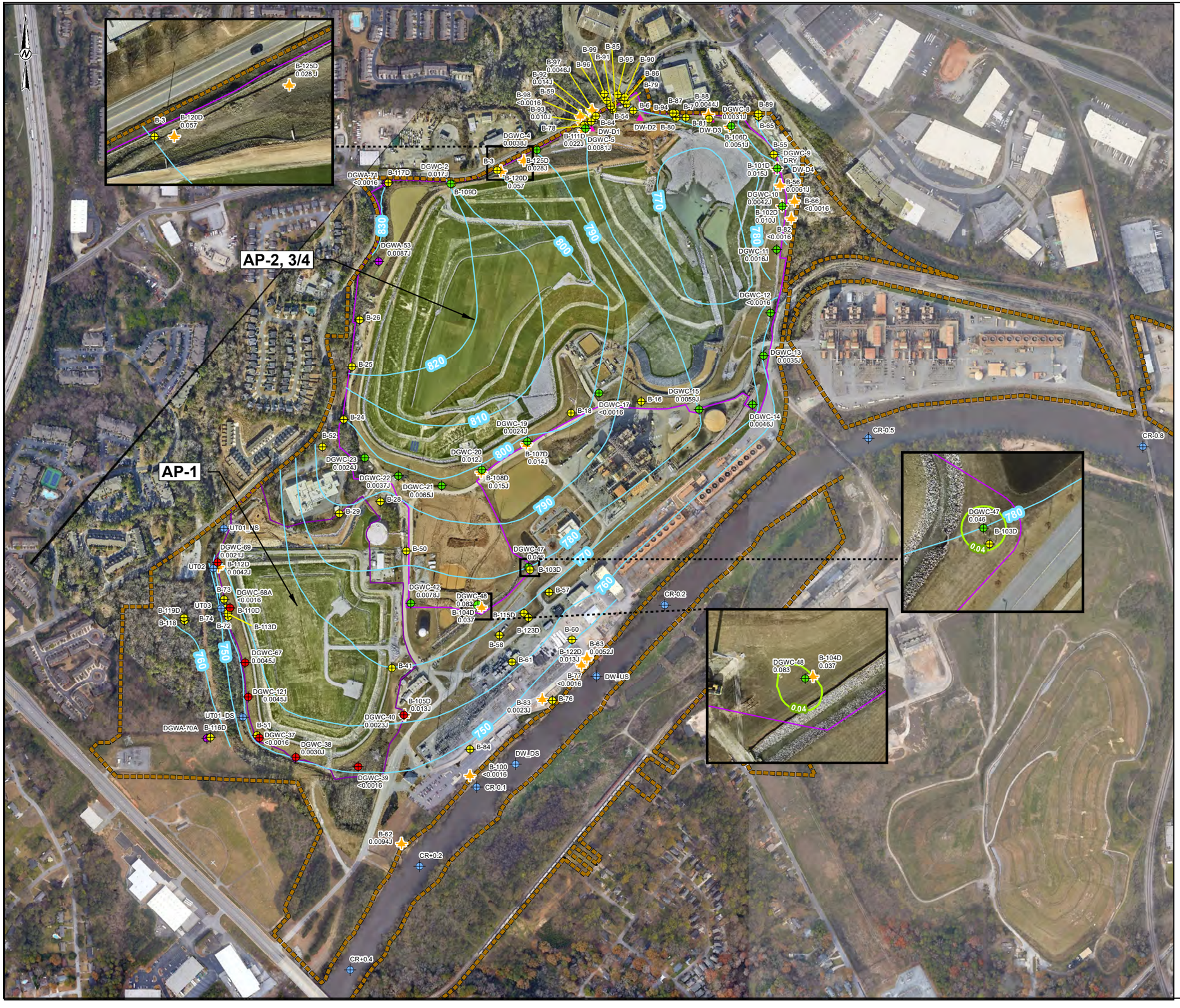
CONSULTANT

YYYY-MM-DD	2024-05-08
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **9A**



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 0.04 LITHIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER LITER (MG/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE JANUARY-FEBRUARY 2024 ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2024 WATER LEVELS.

Analyte	Units	GWPS
Lithium	mg/L	0.04

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
LITHIUM ISOCONCENTRATION CONTOUR MAP - JANUARY-FEBRUARY 2024

CONSULTANT

wsp

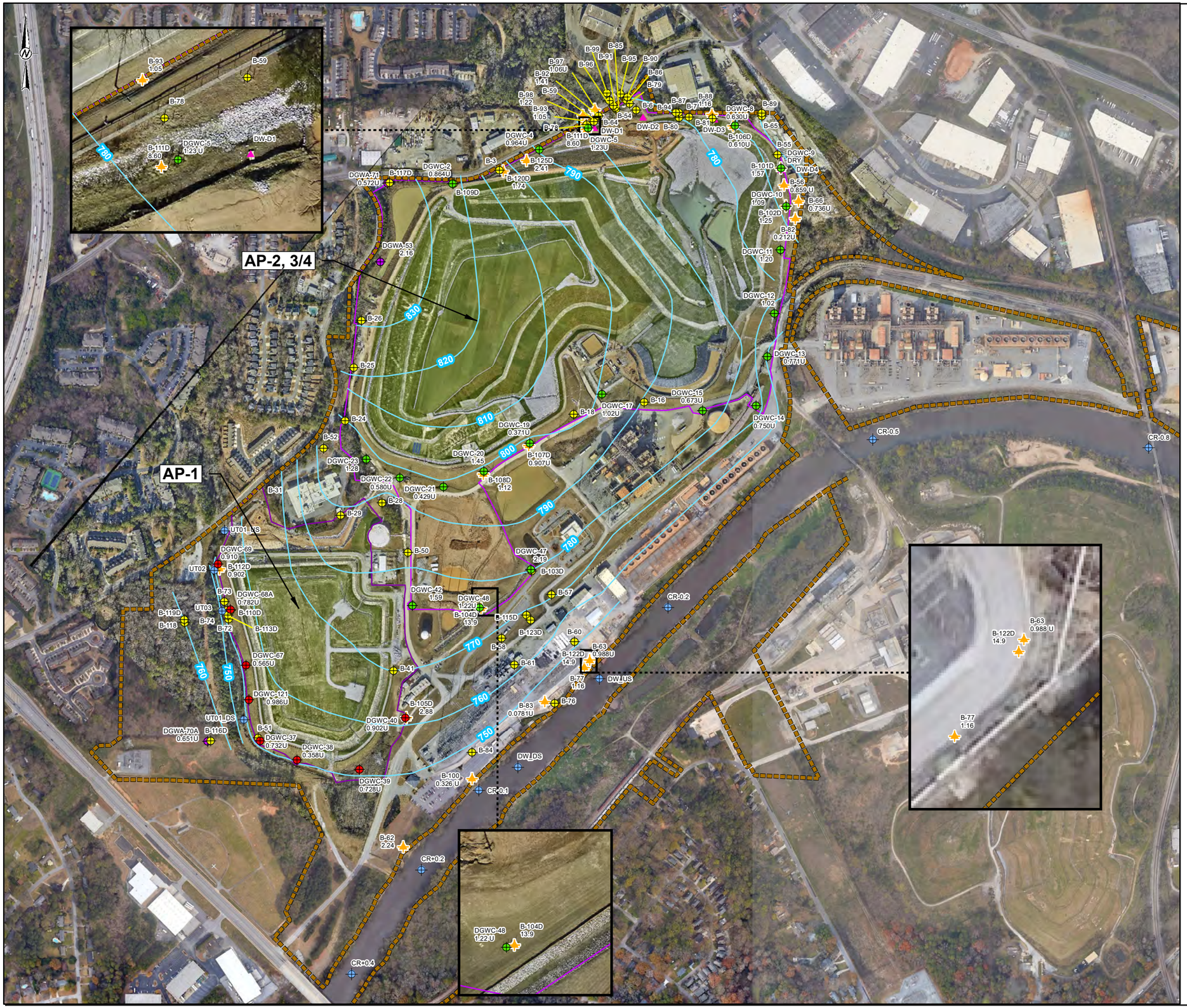
YYYY-MM-DD	2024-06-04
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **9B**

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



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 5 — RADIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (SEPT 2023)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN PICOCURIES PER LITER (PCI/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE SEPTEMBER 2023 SEMI-ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING SEPTEMBER 2023 WATER LEVELS.

Analyte	Units	GWPS
Radium (226+228)	pCi/L	5

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
RADIUM ISOCONCENTRATION CONTOUR MAP - SEPTEMBER 2023

CONSULTANT
wsp

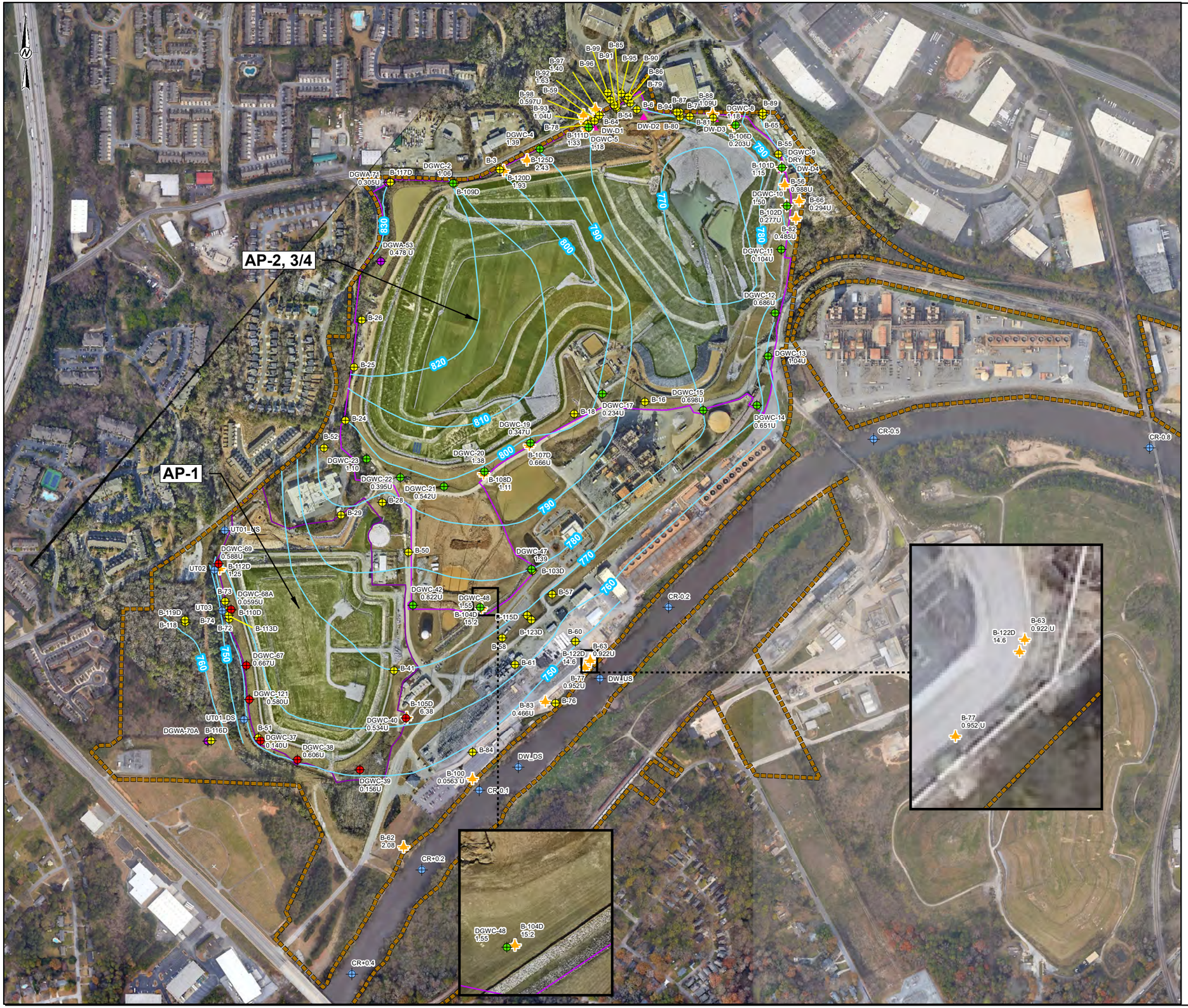
YYYY-MM-DD	2024-05-08
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No. 31406440.MCD23

Rev. 0

FIGURE **10A**

1 in
0



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING LOCATION
- DEWATERING WELL
- 5 RADIUM GWPS ISOCONCENTRATION CONTOUR
- INFERRED POTENTIOMETRIC SURFACE CONTOUR (JAN 2024)
- PROPERTY BOUNDARY
- PERMIT BOUNDARY

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
2. GROUNDWATER CONCENTRATIONS IN PICOCURIES PER LITER (PCI/L). GWPS = GROUNDWATER PROTECTION STANDARD.
3. DATA SHOWN REPRESENT THE JANUARY-FEBRUARY 2024 ANNUAL MONITORING EVENT RESULTS AS WELL AS APPLICABLE DELINEATION WELL DATA.
4. DEEP WELL ANALYTICAL RESULTS NOT USED FOR ISOCONCENTRATION CONTOURING.
5. POTENTIOMETRIC SURFACE DETERMINED USING JANUARY 2024 WATER LEVELS.

Analyte	Units	GWPS
Radium (226+228)	pCi/L	5

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 2022 AND 2023.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT- ASH POND 2 AND 3/4

TITLE
RADIUM ISOCONCENTRATION CONTOUR MAP - JANUARY-FEBRUARY 2024

CONSULTANT
wsp

YYYY-MM-DD	2024-06-04
PREPARED	YCS
DESIGN	BAS
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No.
31406440.MCD23

Rev.
0

FIGURE
10B

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

APPENDIX A

Field Data Forms and Instrument Calibration Forms

APPENDIX A

Field Data Forms
September 2023

Low-Flow Test Report:

Test Date / Time: 9/7/2023 9:18:23 AM
Project: MCD SAGW 2 (4)
Operator Name: P Wahl

Location Name: MCD-DGWA-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.89 ft** **Total Depth: 36.89 ft** **Initial Depth to Water: 13.7 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 9500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 4.53 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/7/2023 9:18 AM	00:00	6.39 pH	23.72 °C	215.96 µS/cm	1.73 mg/L	8.00 NTU	-27.5 mV	14.06 ft	100.00 ml/min
9/7/2023 9:23 AM	05:00	6.45 pH	21.77 °C	220.36 µS/cm	0.43 mg/L	9.19 NTU	-48.0 mV	14.70 ft	100.00 ml/min
9/7/2023 9:28 AM	10:00	6.47 pH	21.92 °C	220.20 µS/cm	0.35 mg/L	7.32 NTU	-40.2 mV	15.20 ft	100.00 ml/min
9/7/2023 9:33 AM	15:00	6.49 pH	22.03 °C	219.42 µS/cm	0.34 mg/L	8.62 NTU	-40.7 mV	15.62 ft	100.00 ml/min
9/7/2023 9:38 AM	20:00	6.49 pH	22.25 °C	219.54 µS/cm	0.31 mg/L	8.81 NTU	-41.8 mV	15.95 ft	100.00 ml/min
9/7/2023 9:43 AM	25:00	6.49 pH	22.45 °C	219.91 µS/cm	0.56 mg/L	8.52 NTU	-42.2 mV	16.22 ft	100.00 ml/min
9/7/2023 9:48 AM	30:00	6.49 pH	22.48 °C	220.00 µS/cm	0.28 mg/L	8.23 NTU	-54.1 mV	16.52 ft	100.00 ml/min
9/7/2023 9:53 AM	35:00	6.49 pH	22.66 °C	219.76 µS/cm	0.27 mg/L	8.63 NTU	-42.5 mV	16.75 ft	100.00 ml/min
9/7/2023 9:58 AM	40:00	6.49 pH	22.84 °C	219.36 µS/cm	0.27 mg/L	7.89 NTU	-43.1 mV	16.95 ft	100.00 ml/min
9/7/2023 10:03 AM	45:00	6.50 pH	22.93 °C	217.45 µS/cm	0.24 mg/L	8.65 NTU	-54.2 mV	17.13 ft	100.00 ml/min
9/7/2023 10:08 AM	50:00	6.49 pH	22.93 °C	217.15 µS/cm	0.25 mg/L	7.49 NTU	-42.4 mV	17.30 ft	100.00 ml/min
9/7/2023 10:13 AM	55:00	6.49 pH	23.13 °C	218.02 µS/cm	0.25 mg/L	6.26 NTU	-44.6 mV	17.45 ft	100.00 ml/min
9/7/2023 10:18 AM	01:00:00	6.49 pH	23.31 °C	216.70 µS/cm	0.24 mg/L	6.37 NTU	-55.7 mV	17.58 ft	100.00 ml/min
9/7/2023 10:23 AM	01:05:00	6.50 pH	23.42 °C	216.36 µS/cm	0.23 mg/L	5.44 NTU	-46.4 mV	17.70 ft	100.00 ml/min
9/7/2023 10:28 AM	01:10:00	6.49 pH	23.12 °C	216.53 µS/cm	0.22 mg/L	5.20 NTU	-56.7 mV	17.80 ft	100.00 ml/min

9/7/2023 10:33 AM	01:15:00	6.49 pH	23.60 °C	217.14 µS/cm	0.22 mg/L	5.23 NTU	-46.9 mV	18.88 ft	100.00 ml/min
9/7/2023 10:38 AM	01:20:00	6.50 pH	23.76 °C	217.00 µS/cm	0.22 mg/L	6.11 NTU	-49.4 mV	18.99 ft	100.00 ml/min
9/7/2023 10:43 AM	01:25:00	6.50 pH	23.62 °C	217.01 µS/cm	0.22 mg/L	6.30 NTU	-49.3 mV	18.09 ft	100.00 ml/min
9/7/2023 10:48 AM	01:30:00	6.50 pH	23.60 °C	217.75 µS/cm	0.22 mg/L	5.13 NTU	-50.3 mV	18.16 ft	100.00 ml/min
9/7/2023 10:53 AM	01:35:00	6.51 pH	23.78 °C	218.59 µS/cm	0.21 mg/L	4.85 NTU	-61.7 mV	18.23 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-53	

Low-Flow Test Report:

Test Date / Time: 9/6/2023 12:20:36 PM
Project: MCD SAGW 2 (2)
Operator Name: P Wahl

Location Name: MCD-DGWA-70A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.54 ft** **Total Depth: 62.54 ft** **Initial Depth to Water: 41.33 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 57 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
9/6/2023 12:20 PM	00:00	5.65 pH	25.87 °C	70.30 µS/cm	5.69 mg/L	13.20 NTU	126.7 mV	41.63 ft	200.00 ml/min
9/6/2023 12:25 PM	05:00	5.49 pH	22.43 °C	69.73 µS/cm	5.01 mg/L	5.30 NTU	136.2 mV	41.65 ft	200.00 ml/min
9/6/2023 12:30 PM	10:00	5.48 pH	21.94 °C	68.56 µS/cm	5.00 mg/L	2.52 NTU	137.6 mV	41.69 ft	200.00 ml/min
9/6/2023 12:35 PM	15:00	5.50 pH	21.52 °C	70.50 µS/cm	4.96 mg/L	2.73 NTU	136.8 mV	41.72 ft	200.00 ml/min
9/6/2023 12:40 PM	20:00	5.51 pH	21.76 °C	70.66 µS/cm	4.95 mg/L	2.09 NTU	136.3 mV	41.73 ft	200.00 ml/min
9/6/2023 12:45 PM	25:00	5.50 pH	21.68 °C	70.93 µS/cm	4.89 mg/L	1.53 NTU	136.0 mV	41.74 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-70A	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/6/2023 3:43:36 PM
Project: SCS MCD (4)
Operator Name: Dana Bloomfield

Location Name: MCD-DGWA-71 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.71 ft** **Total Depth: 47.71 ft** **Initial Depth to Water: 31.29 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/6/2023 3:43 PM	00:00	5.91 pH	21.06 °C	86.44 µS/cm	1.75 mg/L	9.97 NTU	131.8 mV	31.29 ft	200.00 ml/min
9/6/2023 3:48 PM	05:00	5.88 pH	21.46 °C	88.12 µS/cm	1.37 mg/L	4.25 NTU	139.2 mV	31.50 ft	200.00 ml/min
9/6/2023 3:53 PM	10:00	5.86 pH	21.51 °C	87.92 µS/cm	1.23 mg/L	4.25 NTU	144.2 mV	31.59 ft	200.00 ml/min
9/6/2023 3:58 PM	15:00	5.85 pH	21.50 °C	88.06 µS/cm	1.16 mg/L	5.80 NTU	146.6 mV	31.59 ft	200.00 ml/min
9/6/2023 4:03 PM	20:00	5.83 pH	21.51 °C	87.61 µS/cm	1.22 mg/L	3.93 NTU	140.7 mV	31.59 ft	200.00 ml/min
9/6/2023 4:08 PM	25:00	5.82 pH	21.60 °C	88.04 µS/cm	1.30 mg/L	1.94 NTU	127.8 mV	31.59 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-71	

Low-Flow Test Report:

Test Date / Time: 9/13/2023 10:18:55 AM
Project: SCS Plant McDonough
Operator Name: Mark Mann

Location Name: MCD-DGWC-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.42 ft** **Total Depth: 52.42 ft** **Initial Depth to Water: 29.27 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.34 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/13/2023 10:18 AM	00:00	7.33 pH	25.96 °C	330.93 µS/cm	7.16 mg/L	2.03 NTU	151.5 mV	29.27 ft	160.00 ml/min
9/13/2023 10:23 AM	05:00	6.13 pH	20.92 °C	314.87 µS/cm	1.21 mg/L	6.70 NTU	131.9 mV	29.59 ft	160.00 ml/min
9/13/2023 10:28 AM	10:00	6.09 pH	20.77 °C	315.48 µS/cm	0.70 mg/L	7.69 NTU	175.8 mV	29.57 ft	160.00 ml/min
9/13/2023 10:33 AM	15:00	6.08 pH	21.06 °C	316.51 µS/cm	0.53 mg/L	4.25 NTU	135.1 mV	29.60 ft	160.00 ml/min
9/13/2023 10:38 AM	20:00	6.07 pH	20.59 °C	313.79 µS/cm	0.43 mg/L	3.49 NTU	178.7 mV	29.61 ft	160.00 ml/min
9/13/2023 10:43 AM	25:00	6.07 pH	20.83 °C	318.49 µS/cm	0.44 mg/L	2.85 NTU	136.6 mV	29.59 ft	160.00 ml/min
9/13/2023 10:48 AM	30:00	6.06 pH	21.10 °C	316.21 µS/cm	0.39 mg/L	1.71 NTU	182.0 mV	29.61 ft	160.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-2	

Low-Flow Test Report:

Test Date / Time: 9/13/2023 2:22:15 PM
Project: SCS Plant McDonough (13)
Operator Name: Daniel Howard

Location Name: MCD-DGWC-4 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.71 ft** **Total Depth: 46.71 ft** **Initial Depth to Water: 25.44 ft**	**Pump Type: dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 41.7 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-DGWC-4 sample time 1454.

Weather Conditions:
Partly sunny, temp 80 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2023 2:22 PM	00:00	5.73 pH	27.33 °C	1,501.7 µS/cm	1.56 mg/L	0.97 NTU	172.4 mV	25.44 ft	150.00 ml/min
9/13/2023 2:27 PM	05:00	5.68 pH	21.50 °C	1,698.9 µS/cm	1.12 mg/L	1.44 NTU	158.3 mV	25.64 ft	150.00 ml/min
9/13/2023 2:32 PM	10:00	5.65 pH	21.24 °C	1,739.6 µS/cm	0.84 mg/L	1.73 NTU	185.5 mV	25.64 ft	150.00 ml/min
9/13/2023 2:37 PM	15:00	5.65 pH	21.02 °C	1,741.9 µS/cm	0.69 mg/L	1.76 NTU	182.8 mV	25.64 ft	150.00 ml/min
9/13/2023 2:42 PM	20:00	5.64 pH	21.02 °C	1,747.8 µS/cm	0.62 mg/L	1.60 NTU	178.7 mV	25.64 ft	150.00 ml/min
9/13/2023 2:47 PM	25:00	5.64 pH	20.85 °C	1,751.6 µS/cm	0.53 mg/L	1.26 NTU	136.6 mV	25.64 ft	150.00 ml/min
9/13/2023 2:52 PM	30:00	5.64 pH	20.79 °C	1,748.6 µS/cm	0.49 mg/L	0.95 NTU	154.6 mV	25.64 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-4	

Low-Flow Test Report:

Test Date / Time: 9/13/2023 10:11:08 AM
Project: SCS Plant McDonough (11)
Operator Name: Daniel Howard

Location Name: MCD-DGWC-5 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.25 ft** **Total Depth: 33.25 ft** **Initial Depth to Water: 13.97 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 24.62 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-DGWC-5 sample time 1038.

Weather Conditions:
Overcast, temp 73 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2023 10:11 AM	00:00	4.82 pH	22.52 °C	1,126.6 µS/cm	0.82 mg/L	0.97 NTU	542.9 mV	13.97 ft	150.00 ml/min
9/13/2023 10:16 AM	05:00	4.76 pH	20.30 °C	1,185.6 µS/cm	0.49 mg/L	0.53 NTU	546.1 mV	14.14 ft	150.00 ml/min
9/13/2023 10:21 AM	10:00	4.76 pH	20.07 °C	1,181.4 µS/cm	0.41 mg/L	0.45 NTU	588.3 mV	14.14 ft	150.00 ml/min
9/13/2023 10:26 AM	15:00	4.76 pH	20.00 °C	1,180.7 µS/cm	0.40 mg/L	0.48 NTU	590.4 mV	14.14 ft	150.00 ml/min
9/13/2023 10:31 AM	20:00	4.75 pH	20.09 °C	1,179.5 µS/cm	0.38 mg/L	0.30 NTU	591.3 mV	14.14 ft	150.00 ml/min
9/13/2023 10:36 AM	25:00	4.74 pH	20.04 °C	1,182.5 µS/cm	0.38 mg/L	0.40 NTU	591.9 mV	14.14 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-5	

Low-Flow Test Report:

Test Date / Time: 9/12/2023 10:35:23 AM
Project: SCS Plant McDonough (9)
Operator Name: Daniel Howard

Location Name: MCD-DGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.33 ft** **Total Depth: 51.33 ft** **Initial Depth to Water: 35.42 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 43.21 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-DGWC-8 sample time 1112.

Weather Conditions:
Partly sunny, temp 76 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/12/2023 10:35 AM	00:00	5.21 pH	26.58 °C	353.15 µS/cm	1.66 mg/L	0.49 NTU	179.7 mV	35.42 ft	100.00 ml/min
9/12/2023 10:40 AM	05:00	5.06 pH	23.70 °C	368.59 µS/cm	1.73 mg/L	0.39 NTU	134.5 mV	35.47 ft	100.00 ml/min
9/12/2023 10:45 AM	10:00	5.05 pH	23.20 °C	370.96 µS/cm	1.68 mg/L	0.47 NTU	149.0 mV	35.47 ft	100.00 ml/min
9/12/2023 10:50 AM	15:00	5.03 pH	23.24 °C	374.81 µS/cm	1.48 mg/L	0.42 NTU	145.6 mV	35.47 ft	100.00 ml/min
9/12/2023 10:55 AM	20:00	5.03 pH	23.26 °C	373.14 µS/cm	1.41 mg/L	0.45 NTU	115.4 mV	35.47 ft	100.00 ml/min
9/12/2023 11:00 AM	25:00	5.03 pH	23.21 °C	375.54 µS/cm	1.34 mg/L	0.48 NTU	138.3 mV	35.47 ft	100.00 ml/min
9/12/2023 11:05 AM	30:00	5.02 pH	23.50 °C	376.19 µS/cm	1.32 mg/L	0.38 NTU	113.3 mV	35.47 ft	100.00 ml/min
9/12/2023 11:10 AM	35:00	5.02 pH	23.62 °C	376.35 µS/cm	1.29 mg/L	0.33 NTU	136.8 mV	35.47 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-8	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2023 12:50:08 PM
Project: SCS Plant McDonough (6)
Operator Name: Daniel Howard

Location Name: MCD-DGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.8 ft** **Total Depth: 47.8 ft** **Initial Depth to Water: 29.3 ft**	**Pump Type: dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 39.62 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-DGWC-10 sample time 1315.

Weather Conditions:
Partly sunny, temp 85 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/11/2023 12:50 PM	00:00	4.61 pH	22.36 °C	598.30 µS/cm	6.38 mg/L	0.83 NTU	141.0 mV	29.30 ft	150.00 ml/min
9/11/2023 12:55 PM	05:00	4.58 pH	20.80 °C	607.92 µS/cm	6.38 mg/L	0.58 NTU	176.5 mV	29.55 ft	150.00 ml/min
9/11/2023 1:00 PM	10:00	4.57 pH	20.41 °C	607.94 µS/cm	6.34 mg/L	0.95 NTU	173.6 mV	29.55 ft	150.00 ml/min
9/11/2023 1:05 PM	15:00	4.57 pH	20.43 °C	610.61 µS/cm	6.28 mg/L	0.41 NTU	202.4 mV	29.55 ft	150.00 ml/min
9/11/2023 1:10 PM	20:00	4.57 pH	20.40 °C	610.95 µS/cm	6.21 mg/L	0.52 NTU	200.4 mV	29.55 ft	150.00 ml/min
9/11/2023 1:15 PM	25:00	4.56 pH	20.45 °C	610.49 µS/cm	6.14 mg/L	0.52 NTU	198.6 mV	29.55 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-10	

Low-Flow Test Report:

Test Date / Time: 9/8/2023 9:00:05 AM
Project: McDonoughSAGW02 2023 (6)
Operator Name: Mark Mann

Location Name: MCD-DGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.72 ft** **Total Depth: 51.72 ft** **Initial Depth to Water: 13.35 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/8/2023 9:00 AM	00:00	6.71 pH	20.96 °C	684.50 µS/cm	5.78 mg/L	3.81 NTU	155.5 mV	13.35 ft	150.00 ml/min
9/8/2023 9:05 AM	05:00	5.47 pH	19.77 °C	672.76 µS/cm	1.91 mg/L	1.04 NTU	154.4 mV	13.84 ft	150.00 ml/min
9/8/2023 9:10 AM	10:00	5.45 pH	19.67 °C	697.13 µS/cm	1.60 mg/L	1.11 NTU	133.3 mV	13.87 ft	150.00 ml/min
9/8/2023 9:15 AM	15:00	5.44 pH	19.49 °C	672.98 µS/cm	1.20 mg/L	0.59 NTU	121.7 mV	13.90 ft	150.00 ml/min
9/8/2023 9:20 AM	20:00	5.44 pH	19.42 °C	674.83 µS/cm	1.10 mg/L	0.37 NTU	114.2 mV	13.97 ft	150.00 ml/min
9/8/2023 9:25 AM	25:00	5.44 pH	19.43 °C	674.72 µS/cm	1.04 mg/L	0.43 NTU	109.6 mV	14.02 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-11	
MCD-AP234-EB-2	

Low-Flow Test Report:

Test Date / Time: 9/11/2023 9:25:18 AM
Project: McDonoughSAGW02 2023 (9)
Operator Name: Mark Mann

Location Name: MCD-DGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.24 ft** **Total Depth: 28.24 ft** **Initial Depth to Water: 8.46 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: >7.0

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/11/2023 9:25 AM	00:00	6.33 pH	23.12 °C	376.08 µS/cm	5.82 mg/L	13.20 NTU	129.3 mV	8.46 ft	350.00 ml/min
9/11/2023 9:30 AM	05:00	6.13 pH	19.82 °C	471.33 µS/cm	0.74 mg/L	85.60 NTU	42.6 mV	8.79 ft	200.00 ml/min
9/11/2023 9:35 AM	10:00	6.11 pH	19.68 °C	460.76 µS/cm	0.32 mg/L	61.20 NTU	33.5 mV	8.83 ft	200.00 ml/min
9/11/2023 9:40 AM	15:00	6.08 pH	19.64 °C	454.38 µS/cm	0.24 mg/L	40.20 NTU	30.2 mV	8.83 ft	200.00 ml/min
9/11/2023 9:45 AM	20:00	6.08 pH	19.68 °C	453.91 µS/cm	0.22 mg/L	49.50 NTU	28.3 mV	8.80 ft	110.00 ml/min
9/11/2023 9:50 AM	25:00	6.07 pH	19.94 °C	457.04 µS/cm	0.24 mg/L	14.40 NTU	26.6 mV	8.68 ft	110.00 ml/min
9/11/2023 9:55 AM	30:00	6.08 pH	20.39 °C	455.55 µS/cm	0.27 mg/L	10.70 NTU	25.4 mV	8.70 ft	110.00 ml/min
9/11/2023 10:00 AM	35:00	6.09 pH	20.52 °C	459.02 µS/cm	0.31 mg/L	8.88 NTU	24.0 mV	8.66 ft	110.00 ml/min
9/11/2023 10:05 AM	40:00	6.11 pH	20.68 °C	460.39 µS/cm	0.32 mg/L	6.14 NTU	23.1 mV	8.63 ft	110.00 ml/min
9/11/2023 10:10 AM	45:00	6.10 pH	20.79 °C	461.89 µS/cm	0.43 mg/L	4.20 NTU	23.6 mV	8.66 ft	110.00 ml/min

Samples

Sample ID:	Description:

MCD-DGWC-12	+ Extra Rads

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/8/2023 11:39:58 AM
Project: McDonoughSAGW02 2023 (8)
Operator Name: Mark Mann

Location Name: MCD-DGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.66 ft** **Total Depth: 46.66 ft** **Initial Depth to Water: 34.24 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/8/2023 11:39 AM	00:00	5.76 pH	27.01 °C	337.19 µS/cm	5.30 mg/L	3.00 NTU	128.6 mV	34.24 ft	200.00 ml/min
9/8/2023 11:44 AM	05:00	5.61 pH	22.75 °C	352.99 µS/cm	4.20 mg/L	0.71 NTU	108.0 mV	34.50 ft	200.00 ml/min
9/8/2023 11:49 AM	10:00	5.60 pH	22.64 °C	353.56 µS/cm	3.98 mg/L	0.64 NTU	102.5 mV	34.47 ft	200.00 ml/min
9/8/2023 11:54 AM	15:00	5.59 pH	22.80 °C	352.26 µS/cm	3.93 mg/L	0.49 NTU	130.2 mV	34.49 ft	200.00 ml/min
9/8/2023 11:59 AM	20:00	5.59 pH	22.84 °C	351.81 µS/cm	3.92 mg/L	0.68 NTU	134.7 mV	34.48 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-13	

Low-Flow Test Report:

Test Date / Time: 9/8/2023 8:36:57 AM
Project: SCS MCD (8)
Operator Name: Dana Bloomfield

Location Name: MCD-DGWC-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.95 ft** **Total Depth: 37.95 ft** **Initial Depth to Water: 19.91 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 3625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/8/2023 8:36 AM	00:00	5.98 pH	19.28 °C	160.30 µS/cm	5.53 mg/L	0.44 NTU	104.0 mV	19.91 ft	200.00 ml/min
9/8/2023 8:41 AM	05:00	5.71 pH	19.24 °C	156.90 µS/cm	5.37 mg/L	1.30 NTU	100.2 mV	19.91 ft	175.00 ml/min
9/8/2023 8:46 AM	10:00	5.68 pH	19.37 °C	155.22 µS/cm	5.29 mg/L	1.11 NTU	98.6 mV	19.91 ft	175.00 ml/min
9/8/2023 8:51 AM	15:00	5.67 pH	19.42 °C	155.18 µS/cm	5.27 mg/L	0.85 NTU	96.0 mV	19.91 ft	175.00 ml/min
9/8/2023 8:56 AM	20:00	5.67 pH	19.60 °C	154.60 µS/cm	5.23 mg/L	0.96 NTU	95.0 mV	19.91 ft	175.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-14	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/8/2023 9:58:10 AM
Project: SCS MCD (9)
Operator Name: Dana Bloomfield

Location Name: MCD-DGWC-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 60.83 ft** **Total Depth: 70.83 ft** **Initial Depth to Water: 40.85 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 3000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/8/2023 9:58 AM	00:00	5.95 pH	24.07 °C	397.63 µS/cm	2.66 mg/L	0.29 NTU	87.7 mV	40.85 ft	200.00 ml/min
9/8/2023 10:03 AM	05:00	5.83 pH	21.50 °C	401.60 µS/cm	0.94 mg/L	0.88 NTU	75.3 mV	42.37 ft	100.00 ml/min
9/8/2023 10:08 AM	10:00	5.80 pH	22.80 °C	399.41 µS/cm	0.85 mg/L	5.53 NTU	94.9 mV	42.05 ft	100.00 ml/min
9/8/2023 10:13 AM	15:00	5.79 pH	22.80 °C	403.01 µS/cm	0.79 mg/L	4.75 NTU	71.9 mV	41.95 ft	100.00 ml/min
9/8/2023 10:18 AM	20:00	5.80 pH	23.09 °C	402.29 µS/cm	0.75 mg/L	2.45 NTU	87.5 mV	41.95 ft	100.00 ml/min
9/8/2023 10:23 AM	25:00	5.81 pH	23.54 °C	403.29 µS/cm	0.68 mg/L	1.75 NTU	70.2 mV	41.95 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-15	
MCD-AP234-FD-2	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/13/2023 11:55:42 AM
Project: SCS Plant McDonough
Operator Name: Mark Mann

Location Name: MCD-DGWC-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.95 ft** **Total Depth: 47.95 ft** **Initial Depth to Water: 37.94 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 39.69 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/13/2023 11:55 AM	00:00	6.97 pH	29.85 °C	613.03 µS/cm	6.71 mg/L	1.71 NTU	120.2 mV	37.94 ft	150.00 ml/min
9/13/2023 12:00 PM	05:00	5.15 pH	21.71 °C	656.27 µS/cm	3.06 mg/L	3.20 NTU	158.5 mV	38.12 ft	150.00 ml/min
9/13/2023 12:05 PM	10:00	5.11 pH	20.86 °C	674.54 µS/cm	2.62 mg/L	1.64 NTU	146.9 mV	38.14 ft	150.00 ml/min
9/13/2023 12:10 PM	15:00	5.06 pH	20.70 °C	684.20 µS/cm	1.70 mg/L	2.19 NTU	182.8 mV	38.14 ft	150.00 ml/min
9/13/2023 12:15 PM	20:00	5.05 pH	21.29 °C	685.48 µS/cm	1.59 mg/L	1.38 NTU	182.5 mV	38.12 ft	150.00 ml/min
9/13/2023 12:20 PM	25:00	5.04 pH	21.55 °C	681.96 µS/cm	1.55 mg/L	1.44 NTU	181.4 mV	38.11 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-17	

Low-Flow Test Report:

Test Date / Time: 9/8/2023 11:19:01 AM
Project: MCD SAGW 2 (9)
Operator Name: P Wahl

Location Name: MCD-DGWC-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.23 ft** **Total Depth: 43.23 ft** **Initial Depth to Water: 25.7 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 4055 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 1.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/8/2023 11:19 AM	00:00	4.74 pH	31.76 °C	790.43 µS/cm	6.62 mg/L	1.77 NTU	120.1 mV	26.90 ft	200.00 ml/min
9/8/2023 11:24 AM	05:00	4.65 pH	22.22 °C	803.02 µS/cm	1.60 mg/L	5.79 NTU	120.5 mV	26.90 ft	150.00 ml/min
9/8/2023 11:29 AM	10:00	4.73 pH	21.83 °C	818.40 µS/cm	1.45 mg/L	0.84 NTU	184.7 mV	26.90 ft	150.00 ml/min
9/8/2023 11:34 AM	15:22	4.76 pH	22.08 °C	832.81 µS/cm	0.96 mg/L	1.59 NTU	147.5 mV	26.91 ft	150.00 ml/min
9/8/2023 11:39 AM	20:22	4.77 pH	22.08 °C	830.41 µS/cm	0.93 mg/L	0.51 NTU	154.9 mV	26.92 ft	150.00 ml/min
9/8/2023 11:44 AM	25:22	4.78 pH	22.11 °C	835.81 µS/cm	0.77 mg/L	0.78 NTU	262.6 mV	26.93 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-19	
MCD-AP234-FB-2	

Low-Flow Test Report:

Test Date / Time: 9/11/2023 8:57:40 AM
Project: MCD SAGW 2 (10)
Operator Name: P Wahl

Location Name: MCD-DGWC-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.3 ft** **Total Depth: 43.3 ft** **Initial Depth to Water: 24.61 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 36 ft** **Estimated Total Volume Pumped: 3125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 0.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/11/2023 8:57 AM	00:00	4.62 pH	22.73 °C	927.56 µS/cm	7.26 mg/L	4.68 NTU	140.5 mV	24.94 ft	125.00 ml/min
9/11/2023 9:02 AM	05:00	3.97 pH	20.94 °C	992.92 µS/cm	5.17 mg/L	3.52 NTU	164.6 mV	25.13 ft	125.00 ml/min
9/11/2023 9:07 AM	10:00	4.05 pH	20.69 °C	1,106.6 µS/cm	1.64 mg/L	1.55 NTU	162.2 mV	25.24 ft	125.00 ml/min
9/11/2023 9:12 AM	15:00	4.05 pH	20.82 °C	1,121.1 µS/cm	0.85 mg/L	1.33 NTU	185.9 mV	25.26 ft	125.00 ml/min
9/11/2023 9:17 AM	20:00	4.06 pH	20.80 °C	1,130.3 µS/cm	0.78 mg/L	0.74 NTU	191.3 mV	25.27 ft	125.00 ml/min
9/11/2023 9:22 AM	25:00	4.06 pH	20.86 °C	1,128.6 µS/cm	0.75 mg/L	0.88 NTU	200.6 mV	25.28 ft	125.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-20	
MCD-AP234-FB-3	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2023 11:06:34 AM
Project: MCD SAGW 2 (11)
Operator Name: P Wahl

Location Name: MCD-DGWC-21 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.6 ft** **Total Depth: 72.6 ft** **Initial Depth to Water: 19.08 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 66 ft** **Estimated Total Volume Pumped: 3000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/11/2023 11:06 AM	00:00	6.22 pH	30.47 °C	505.29 µS/cm	6.23 mg/L	1.77 NTU	141.7 mV	19.27 ft	150.00 ml/min
9/11/2023 11:11 AM	05:00	5.61 pH	22.83 °C	645.28 µS/cm	0.46 mg/L	1.83 NTU	111.2 mV	19.31 ft	150.00 ml/min
9/11/2023 11:16 AM	10:00	5.61 pH	22.30 °C	649.14 µS/cm	0.31 mg/L	1.78 NTU	116.1 mV	19.32 ft	150.00 ml/min
9/11/2023 11:21 AM	15:00	5.61 pH	22.34 °C	654.98 µS/cm	0.24 mg/L	1.09 NTU	100.3 mV	19.33 ft	150.00 ml/min
9/11/2023 11:26 AM	20:00	5.61 pH	22.30 °C	651.27 µS/cm	0.20 mg/L	1.13 NTU	99.0 mV	19.36 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-21	
MCD-AP234-FD-3	

Low-Flow Test Report:

Test Date / Time: 9/11/2023 12:59:16 PM
Project: MCD SAGW 2 (12)
Operator Name: P Wahl

Location Name: MCD-DGWC-22 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.45 ft** **Total Depth: 63.45 ft** **Initial Depth to Water: 22.59 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 3000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/11/2023 12:59 PM	00:00	6.98 pH	32.53 °C	425.49 µS/cm	4.92 mg/L	4.00 NTU	30.1 mV	22.73 ft	150.00 ml/min
9/11/2023 1:04 PM	05:00	5.56 pH	23.47 °C	615.00 µS/cm	1.04 mg/L	10.90 NTU	46.5 mV	22.75 ft	150.00 ml/min
9/11/2023 1:09 PM	10:00	5.56 pH	22.84 °C	618.02 µS/cm	0.90 mg/L	4.29 NTU	49.2 mV	22.76 ft	150.00 ml/min
9/11/2023 1:14 PM	15:00	5.58 pH	22.80 °C	608.27 µS/cm	0.96 mg/L	1.85 NTU	49.7 mV	22.76 ft	150.00 ml/min
9/11/2023 1:19 PM	20:00	5.57 pH	22.78 °C	615.60 µS/cm	0.77 mg/L	1.60 NTU	52.0 mV	22.76 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-22	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2023 2:19:25 PM
Project: MCD SAGW 2 (13)
Operator Name: P Wahl

Location Name: MCD-DGWC-23 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.26 ft** **Total Depth: 63.26 ft** **Initial Depth to Water: 21.15 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/11/2023 2:19 PM	00:00	7.19 pH	35.62 °C	623.41 µS/cm	6.60 mg/L	15.10 NTU	74.1 mV	21.56 ft	200.00 ml/min
9/11/2023 2:24 PM	05:00	6.04 pH	19.97 °C	754.51 µS/cm	0.91 mg/L	5.77 NTU	79.6 mV	22.53 ft	200.00 ml/min
9/11/2023 2:29 PM	10:00	6.01 pH	19.01 °C	756.52 µS/cm	0.72 mg/L	2.80 NTU	76.1 mV	23.25 ft	200.00 ml/min
9/11/2023 2:34 PM	15:00	6.00 pH	19.77 °C	752.78 µS/cm	0.57 mg/L	2.53 NTU	77.9 mV	23.26 ft	200.00 ml/min
9/11/2023 2:39 PM	20:00	5.99 pH	19.58 °C	751.57 µS/cm	0.42 mg/L	1.98 NTU	75.5 mV	23.36 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-23	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/13/2023 2:15:46 PM
Project: SCS Plant McDonough
Operator Name: P Wahl

Location Name: MCD-DGWC-42 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.7 ft** **Total Depth: 52.7 ft** **Initial Depth to Water: 30.32 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 47.7 ft** **Estimated Total Volume Pumped: 6310 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/13/2023 2:15 PM	00:00	5.91 pH	32.87 °C	711.77 µS/cm	5.72 mg/L	3.80 NTU	57.1 mV	30.72 ft	200.00 ml/min
9/13/2023 2:20 PM	05:00	5.08 pH	22.52 °C	739.51 µS/cm	1.91 mg/L	4.83 NTU	70.4 mV	31.14 ft	200.00 ml/min
9/13/2023 2:25 PM	10:00	5.05 pH	22.08 °C	743.32 µS/cm	1.43 mg/L	0.43 NTU	77.0 mV	31.15 ft	200.00 ml/min
9/13/2023 2:30 PM	15:00	5.04 pH	21.99 °C	740.38 µS/cm	1.11 mg/L	1.63 NTU	77.8 mV	31.20 ft	200.00 ml/min
9/13/2023 2:35 PM	20:00	5.03 pH	21.64 °C	741.38 µS/cm	0.77 mg/L	1.23 NTU	78.4 mV	31.30 ft	200.00 ml/min
9/13/2023 2:40 PM	25:00	5.04 pH	21.54 °C	742.20 µS/cm	0.64 mg/L	1.55 NTU	78.5 mV	31.36 ft	200.00 ml/min
9/13/2023 2:42 PM	26:33	5.03 pH	21.59 °C	748.79 µS/cm	0.58 mg/L	2.19 NTU	75.5 mV	31.36 ft	200.00 ml/min
9/13/2023 2:47 PM	31:33	5.04 pH	21.50 °C	740.43 µS/cm	0.52 mg/L	1.68 NTU	75.3 mV	31.38 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-42	

Low-Flow Test Report:

Test Date / Time: 9/12/2023 10:58:16 AM
Project: MCD SAGW 2 (15)
Operator Name: P Wahl

Location Name: MCD-DGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 21.93 ft** **Total Depth: 31.93 ft** **Initial Depth to Water: 16.43 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 3200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/12/2023 10:58 AM	00:00	3.95 pH	33.02 °C	288.88 µS/cm	3.24 mg/L	6.78 NTU	82.0 mV	16.77 ft	140.00 ml/min
9/12/2023 11:03 AM	05:00	3.89 pH	25.59 °C	302.70 µS/cm	0.32 mg/L	10.00 NTU	91.2 mV	17.31 ft	100.00 ml/min
9/12/2023 11:08 AM	10:00	3.91 pH	25.27 °C	305.84 µS/cm	0.26 mg/L	6.62 NTU	111.0 mV	17.52 ft	100.00 ml/min
9/12/2023 11:13 AM	15:00	3.94 pH	25.47 °C	302.96 µS/cm	0.33 mg/L	4.18 NTU	106.6 mV	17.61 ft	100.00 ml/min
9/12/2023 11:18 AM	20:00	3.97 pH	25.32 °C	302.49 µS/cm	0.37 mg/L	2.32 NTU	109.6 mV	17.65 ft	100.00 ml/min
9/12/2023 11:23 AM	25:00	3.98 pH	24.86 °C	302.59 µS/cm	0.40 mg/L	1.51 NTU	128.7 mV	17.68 ft	100.00 ml/min
9/12/2023 11:28 AM	30:00	3.99 pH	24.91 °C	303.11 µS/cm	0.41 mg/L	1.77 NTU	112.8 mV	17.68 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-47	

Low-Flow Test Report:

Test Date / Time: 9/13/2023 9:44:55 AM
Project: Plant McDonough
Operator Name: P Wahl

Location Name: MCD-DGWC-48 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.49 ft** **Total Depth: 33.49 ft** **Initial Depth to Water: 14.98 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 28.49 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.71 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/13/2023 9:44 AM	00:00	3.63 pH	24.04 °C	672.99 µS/cm	5.31 mg/L	1.02 NTU	171.4 mV	15.45 ft	150.00 ml/min
9/13/2023 9:49 AM	05:00	4.00 pH	20.65 °C	625.50 µS/cm	1.47 mg/L	1.63 NTU	144.7 mV	15.58 ft	150.00 ml/min
9/13/2023 9:54 AM	10:00	4.01 pH	20.43 °C	619.89 µS/cm	1.13 mg/L	4.32 NTU	183.5 mV	15.63 ft	150.00 ml/min
9/13/2023 9:59 AM	15:00	3.98 pH	20.43 °C	615.80 µS/cm	1.02 mg/L	5.54 NTU	176.4 mV	15.67 ft	150.00 ml/min
9/13/2023 10:04 AM	20:00	4.01 pH	20.47 °C	613.72 µS/cm	0.86 mg/L	2.32 NTU	182.4 mV	15.65 ft	150.00 ml/min
9/13/2023 10:09 AM	25:00	4.03 pH	20.52 °C	612.00 µS/cm	0.73 mg/L	2.19 NTU	182.7 mV	15.67 ft	150.00 ml/min
9/13/2023 10:14 AM	30:00	4.04 pH	20.56 °C	612.08 µS/cm	0.64 mg/L	1.81 NTU	227.1 mV	15.69 ft	150.00 ml/min
9/13/2023 10:19 AM	35:00	4.06 pH	20.70 °C	611.14 µS/cm	0.57 mg/L	1.15 NTU	229.5 mV	15.69 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-48	

Low-Flow Test Report:

Test Date / Time: 9/8/2023 10:03:20 AM
Project: McDonoughSAGW02 2023 (7)
Operator Name: Mark Mann

Location Name: MCD-B-56 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.9 ft** **Total Depth: 47.9 ft** **Initial Depth to Water: 30.39 ft**	**Pump Type: Peri** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 5050 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 135 ml/min** **Final Draw Down: 0.62 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.25

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	
9/8/2023 10:03 AM	00:00	5.13 pH	27.85 °C	510.92 µS/cm	5.40 mg/L	71.40 NTU	137.6 mV	30.39 ft	200.00 ml/min
9/8/2023 10:08 AM	05:00	4.60 pH	20.30 °C	575.21 µS/cm	0.84 mg/L	28.90 NTU	131.9 mV	30.92 ft	135.00 ml/min
9/8/2023 10:13 AM	10:00	4.60 pH	19.64 °C	585.78 µS/cm	0.38 mg/L	8.94 NTU	157.9 mV	30.94 ft	135.00 ml/min
9/8/2023 10:18 AM	15:00	4.60 pH	19.49 °C	584.33 µS/cm	0.41 mg/L	9.63 NTU	114.5 mV	30.98 ft	135.00 ml/min
9/8/2023 10:23 AM	20:00	4.60 pH	19.37 °C	585.83 µS/cm	0.39 mg/L	6.93 NTU	144.0 mV	31.00 ft	135.00 ml/min
9/8/2023 10:28 AM	25:00	4.60 pH	19.36 °C	585.94 µS/cm	0.37 mg/L	5.64 NTU	108.9 mV	30.99 ft	135.00 ml/min
9/8/2023 10:33 AM	30:00	4.60 pH	19.23 °C	589.74 µS/cm	0.33 mg/L	5.17 NTU	137.7 mV	31.02 ft	135.00 ml/min
9/8/2023 10:38 AM	35:00	4.60 pH	19.15 °C	589.05 µS/cm	0.31 mg/L	4.67 NTU	106.1 mV	31.01 ft	135.00 ml/min

Samples

Sample ID:	Description:
MCD-B-56	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/7/2023 3:09:52 PM
Project: SCS MCD (7)
Operator Name: Dana Bloomfield

Location Name: MCD-B-62 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.62 ft** **Total Depth: 39.62 ft** **Initial Depth to Water: 13.2 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 8500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/7/2023 3:09 PM	00:00	6.55 pH	26.10 °C	424.39 µS/cm	0.35 mg/L	26.60 NTU	29.2 mV	13.49 ft	100.00 ml/min
9/7/2023 3:14 PM	05:00	6.58 pH	26.05 °C	408.50 µS/cm	0.21 mg/L	14.00 NTU	16.7 mV	13.49 ft	100.00 ml/min
9/7/2023 3:19 PM	10:00	6.56 pH	25.51 °C	382.95 µS/cm	0.18 mg/L	11.70 NTU	15.4 mV	13.49 ft	100.00 ml/min
9/7/2023 3:24 PM	15:00	6.52 pH	25.62 °C	360.99 µS/cm	0.15 mg/L	10.20 NTU	5.3 mV	13.49 ft	100.00 ml/min
9/7/2023 3:29 PM	20:00	6.50 pH	25.42 °C	342.22 µS/cm	0.19 mg/L	7.79 NTU	14.1 mV	13.49 ft	100.00 ml/min
9/7/2023 3:34 PM	25:00	6.48 pH	25.55 °C	335.25 µS/cm	0.18 mg/L	6.83 NTU	14.4 mV	13.49 ft	100.00 ml/min
9/7/2023 3:39 PM	30:00	6.47 pH	25.64 °C	325.89 µS/cm	0.18 mg/L	8.37 NTU	15.9 mV	13.49 ft	100.00 ml/min
9/7/2023 3:44 PM	35:00	6.44 pH	25.51 °C	306.78 µS/cm	0.19 mg/L	9.71 NTU	6.4 mV	13.49 ft	100.00 ml/min
9/7/2023 3:49 PM	40:00	6.43 pH	25.21 °C	307.22 µS/cm	0.17 mg/L	5.54 NTU	15.2 mV	13.49 ft	100.00 ml/min
9/7/2023 3:54 PM	45:00	6.42 pH	25.24 °C	303.50 µS/cm	0.17 mg/L	6.30 NTU	8.9 mV	13.49 ft	100.00 ml/min
9/7/2023 3:59 PM	50:00	6.40 pH	25.28 °C	302.27 µS/cm	0.17 mg/L	6.16 NTU	19.0 mV	13.49 ft	100.00 ml/min
9/7/2023 4:04 PM	55:00	6.40 pH	25.41 °C	300.17 µS/cm	0.19 mg/L	7.09 NTU	22.1 mV	13.49 ft	100.00 ml/min
9/7/2023 4:09 PM	01:00:00	6.35 pH	25.19 °C	284.95 µS/cm	0.18 mg/L	3.91 NTU	18.5 mV	13.49 ft	100.00 ml/min
9/7/2023 4:14 PM	01:05:00	6.43 pH	25.32 °C	313.63 µS/cm	0.18 mg/L	3.95 NTU	24.7 mV	13.49 ft	100.00 ml/min
9/7/2023 4:19 PM	01:10:00	6.37 pH	25.34 °C	295.01 µS/cm	0.21 mg/L	4.25 NTU	21.7 mV	13.49 ft	100.00 ml/min
9/7/2023 4:24 PM	01:15:00	6.36 pH	25.44 °C	292.64 µS/cm	0.21 mg/L	4.26 NTU	21.8 mV	13.49 ft	100.00 ml/min

9/7/2023 4:29 PM	01:20:00	6.37 pH	25.19 °C	278.87 µS/cm	0.19 mg/L	4.89 NTU	23.1 mV	13.49 ft	100.00 ml/min
9/7/2023 4:34 PM	01:25:00	6.38 pH	24.69 °C	291.01 µS/cm	0.21 mg/L	4.93 NTU	25.8 mV	13.49 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-62	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/7/2023 11:29:27 AM
Project: SCS Plant McDonough
Operator Name: Daniel Howard

Location Name: MCD-B-63 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.15 ft** **Total Depth: 46.15 ft** **Initial Depth to Water: 29.11 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 41.15 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-B-63 sample time 1206.

Weather Conditions:
Clear and Sunny, temp 83F

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	
9/7/2023 11:29 AM	00:00	5.47 pH	29.96 °C	267.35 µS/cm	1.26 mg/L	12.70 NTU	31.8 mV	29.11 ft	150.00 ml/min
9/7/2023 11:34 AM	05:00	5.36 pH	23.40 °C	290.38 µS/cm	0.74 mg/L	18.70 NTU	-8.6 mV	29.41 ft	150.00 ml/min
9/7/2023 11:39 AM	10:00	5.34 pH	22.81 °C	287.73 µS/cm	0.39 mg/L	7.32 NTU	-26.5 mV	29.41 ft	150.00 ml/min
9/7/2023 11:44 AM	15:00	5.32 pH	22.84 °C	287.19 µS/cm	0.28 mg/L	7.75 NTU	-28.2 mV	29.41 ft	150.00 ml/min
9/7/2023 11:49 AM	20:00	5.32 pH	22.88 °C	287.69 µS/cm	0.22 mg/L	6.78 NTU	-27.1 mV	29.42 ft	150.00 ml/min
9/7/2023 11:54 AM	25:00	5.31 pH	22.87 °C	285.94 µS/cm	0.19 mg/L	5.82 NTU	-25.9 mV	29.43 ft	150.00 ml/min
9/7/2023 11:59 AM	30:00	5.28 pH	22.78 °C	285.19 µS/cm	0.16 mg/L	4.93 NTU	-10.0 mV	29.44 ft	150.00 ml/min
9/7/2023 12:04 PM	35:00	5.27 pH	22.71 °C	283.28 µS/cm	0.14 mg/L	4.14 NTU	-20.4 mV	29.44 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/11/2023 1:21:58 PM
Project: McDonoughSAGW02 2023 (11)
Operator Name: Mark Mann

Location Name: MCD-B-66 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.99 ft** **Total Depth: 57.99 ft** **Initial Depth to Water: 18.13 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 4750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 1.25

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	
9/11/2023 1:21 PM	00:00	6.01 pH	31.67 °C	668.70 µS/cm	5.50 mg/L	8.73 NTU	114.2 mV	18.13 ft	250.00 ml/min
9/11/2023 1:26 PM	05:00	6.14 pH	23.16 °C	703.38 µS/cm	0.41 mg/L	6.76 NTU	67.1 mV	19.95 ft	175.00 ml/min
9/11/2023 1:31 PM	10:00	6.19 pH	23.40 °C	725.53 µS/cm	1.03 mg/L	2.96 NTU	73.7 mV	20.46 ft	125.00 ml/min
9/11/2023 1:36 PM	15:00	6.26 pH	23.79 °C	726.43 µS/cm	1.74 mg/L	3.18 NTU	67.3 mV	20.70 ft	100.00 ml/min
9/11/2023 1:41 PM	20:00	6.21 pH	24.24 °C	722.65 µS/cm	1.29 mg/L	2.51 NTU	69.8 mV	20.83 ft	100.00 ml/min
9/11/2023 1:46 PM	25:00	6.21 pH	25.25 °C	714.73 µS/cm	1.04 mg/L	2.96 NTU	55.2 mV	20.93 ft	100.00 ml/min
9/11/2023 1:51 PM	30:00	6.22 pH	25.62 °C	719.02 µS/cm	0.98 mg/L	2.03 NTU	54.9 mV	21.06 ft	100.00 ml/min
9/11/2023 1:56 PM	35:00	6.22 pH	26.23 °C	717.74 µS/cm	0.86 mg/L	1.69 NTU	54.9 mV	21.13 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-66	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2023 10:45:48 AM
Project: McDonoughSAGW02 2023 (13)
Operator Name: Mark Mann

Location Name: MCD-B-77 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 29.61 ft**	**Pump Type: Peri** **Tubing Type: LDPE** **Pump Intake From TOC: 33.6 ft** **Estimated Total Volume Pumped: 3200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 1.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 6.75

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	
9/12/2023 10:45 AM	00:00	6.22 pH	31.04 °C	357.15 µS/cm	2.43 mg/L	11.60 NTU	-33.9 mV	29.61 ft	160.00 ml/min
9/12/2023 10:50 AM	05:00	6.52 pH	23.34 °C	394.43 µS/cm	0.40 mg/L	3.58 NTU	-65.3 mV	30.54 ft	160.00 ml/min
9/12/2023 10:55 AM	10:00	6.54 pH	23.51 °C	396.69 µS/cm	0.39 mg/L	3.74 NTU	-77.3 mV	30.70 ft	160.00 ml/min
9/12/2023 11:00 AM	15:00	6.55 pH	23.58 °C	394.19 µS/cm	0.32 mg/L	2.23 NTU	-78.7 mV	30.80 ft	160.00 ml/min
9/12/2023 11:05 AM	20:00	6.55 pH	23.63 °C	390.45 µS/cm	0.30 mg/L	3.01 NTU	-77.9 mV	30.84 ft	160.00 ml/min

Samples

Sample ID:	Description:
MCD-B-77	

Low-Flow Test Report:

Test Date / Time: 9/11/2023 11:37:48 AM
Project: McDonoughSAGW02 2023 (10)
Operator Name: Mark Mann

Location Name: MCD-B-82 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.65 ft** **Total Depth: 47.65 ft** **Initial Depth to Water: 11.8 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 3950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 1.57 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/11/2023 11:37 AM	00:00	5.96 pH	33.77 °C	818.34 µS/cm	3.55 mg/L	9.64 NTU	54.4 mV	11.80 ft	250.00 ml/min
9/11/2023 11:42 AM	05:00	5.62 pH	23.65 °C	850.62 µS/cm	1.10 mg/L	3.34 NTU	58.7 mV	13.14 ft	180.00 ml/min
9/11/2023 11:47 AM	10:00	5.63 pH	24.05 °C	869.14 µS/cm	1.08 mg/L	3.37 NTU	64.6 mV	13.23 ft	180.00 ml/min
9/11/2023 11:52 AM	15:00	5.61 pH	24.01 °C	862.83 µS/cm	1.04 mg/L	2.39 NTU	70.4 mV	13.31 ft	180.00 ml/min
9/11/2023 11:57 AM	20:00	5.60 pH	23.79 °C	863.60 µS/cm	1.06 mg/L	1.57 NTU	76.2 mV	13.37 ft	180.00 ml/min

Samples

Sample ID:	Description:
MCD-B-82	
MCD-AP234-FD-4	

Low-Flow Test Report:

Test Date / Time: 9/12/2023 12:28:08 PM
Project: McDonoughSAGW02 2023 (14)
Operator Name: Mark Mann

Location Name: MCD-B-83 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.9 ft** **Total Depth: 48.9 ft** **Initial Depth to Water: 29.67 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/12/2023 12:28 PM	00:00	6.00 pH	37.57 °C	257.18 µS/cm	3.57 mg/L	24.30 NTU	53.4 mV	29.67 ft	150.00 ml/min
9/12/2023 12:33 PM	05:00	5.70 pH	25.14 °C	345.25 µS/cm	1.09 mg/L	5.01 NTU	80.7 mV	29.70 ft	150.00 ml/min
9/12/2023 12:38 PM	10:00	5.69 pH	23.74 °C	348.80 µS/cm	0.71 mg/L	3.52 NTU	134.6 mV	29.72 ft	150.00 ml/min
9/12/2023 12:43 PM	15:00	5.69 pH	23.20 °C	341.48 µS/cm	0.37 mg/L	6.58 NTU	168.0 mV	29.73 ft	150.00 ml/min
9/12/2023 12:48 PM	20:00	5.69 pH	22.85 °C	335.38 µS/cm	0.24 mg/L	4.59 NTU	137.8 mV	29.72 ft	150.00 ml/min
9/12/2023 12:53 PM	25:00	5.68 pH	22.69 °C	330.98 µS/cm	0.20 mg/L	3.53 NTU	192.9 mV	29.77 ft	150.00 ml/min
9/12/2023 12:58 PM	30:00	5.67 pH	22.53 °C	330.11 µS/cm	0.17 mg/L	2.98 NTU	146.8 mV	29.78 ft	150.00 ml/min
9/12/2023 1:03 PM	35:00	5.66 pH	22.88 °C	329.94 µS/cm	0.16 mg/L	1.85 NTU	148.1 mV	29.77 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-83	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2023 1:18:59 PM
Project: SCS Plant McDonough (10)
Operator Name: Daniel Howard

Location Name: MCD-B-88 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 64.06 ft** **Total Depth: 75.06 ft** **Initial Depth to Water: 38.76 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 70 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-B-88 sample time 1410.

Weather Conditions:
Partly sunny, temp 83 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/12/2023 1:18 PM	00:00	5.72 pH	25.97 °C	921.04 µS/cm	0.81 mg/L	90.80 NTU	76.6 mV	38.76 ft	200.00 ml/min
9/12/2023 1:23 PM	05:00	5.48 pH	20.40 °C	997.55 µS/cm	0.40 mg/L	27.60 NTU	93.2 mV	38.85 ft	200.00 ml/min
9/12/2023 1:28 PM	10:00	5.46 pH	20.04 °C	996.61 µS/cm	0.26 mg/L	28.10 NTU	113.8 mV	38.86 ft	200.00 ml/min
9/12/2023 1:33 PM	15:00	5.45 pH	20.01 °C	995.81 µS/cm	0.20 mg/L	24.90 NTU	121.4 mV	38.86 ft	200.00 ml/min
9/12/2023 1:38 PM	20:00	5.46 pH	19.92 °C	989.77 µS/cm	0.18 mg/L	71.40 NTU	100.7 mV	38.86 ft	200.00 ml/min
9/12/2023 1:43 PM	25:00	5.44 pH	19.55 °C	986.40 µS/cm	0.21 mg/L	24.50 NTU	117.8 mV	38.86 ft	200.00 ml/min
9/12/2023 1:48 PM	30:00	5.43 pH	19.19 °C	981.12 µS/cm	0.23 mg/L	12.30 NTU	126.6 mV	38.86 ft	200.00 ml/min
9/12/2023 1:53 PM	35:00	5.43 pH	19.06 °C	978.33 µS/cm	0.24 mg/L	7.65 NTU	111.9 mV	38.86 ft	200.00 ml/min
9/12/2023 1:58 PM	40:00	5.43 pH	18.99 °C	974.71 µS/cm	0.24 mg/L	5.19 NTU	132.6 mV	38.86 ft	200.00 ml/min
9/12/2023 2:03 PM	45:00	5.42 pH	19.02 °C	970.77 µS/cm	0.24 mg/L	4.36 NTU	119.3 mV	38.86 ft	200.00 ml/min
9/12/2023 2:08 PM	50:00	5.41 pH	19.07 °C	966.96 µS/cm	0.24 mg/L	4.09 NTU	139.4 mV	38.86 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-88	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/6/2023 11:20:45 AM
Project: SCS MCD (2)
Operator Name: Dana Bloomfield

Location Name: MCD-B-92 **Well Diameter: 2 in** **Casing Type: PVC** **Total Depth: 24.6 ft** **Initial Depth to Water: 7.95 m**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 3200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -5.487 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/6/2023 11:20 AM	00:00	4.69 pH	22.80 °C	1,077.7 µS/cm	0.23 mg/L	3.70 NTU	463.2 mV	7.95 ft	200.00 ml/min
9/6/2023 11:24 AM	03:31	4.70 pH	22.15 °C	1,088.9 µS/cm	0.15 mg/L	1.35 NTU	494.8 mV	8.08 ft	200.00 ml/min
9/6/2023 11:28 AM	07:44	4.70 pH	21.86 °C	1,092.3 µS/cm	0.13 mg/L	1.19 NTU	491.0 mV	8.08 ft	200.00 ml/min
9/6/2023 11:30 AM	10:01	4.70 pH	21.92 °C	1,090.9 µS/cm	0.12 mg/L	0.72 NTU	489.9 mV	8.08 ft	200.00 ml/min
9/6/2023 11:35 AM	15:01	4.71 pH	21.51 °C	1,094.5 µS/cm	0.11 mg/L	0.86 NTU	489.0 mV	8.08 ft	200.00 ml/min

Samples

Sample ID:	Description:
McD-B-92	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/6/2023 10:49:44 AM
Project: McDonoughSAGW02 2023
Operator Name: Mark Mann

Location Name: MCD-B-93 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19.3 ft** **Total Depth: 29.3 ft** **Initial Depth to Water: 10.23 ft**	**Pump Type: Peri** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 12750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/6/2023 10:49 AM	00:00	4.65 pH	27.89 °C	1,010.1 µS/cm	3.94 mg/L	18.80 NTU	293.3 mV	10.23 ft	250.00 ml/min
9/6/2023 10:54 AM	05:00	4.60 pH	20.82 °C	1,092.9 µS/cm	0.32 mg/L	21.80 NTU	487.5 mV	10.86 ft	250.00 ml/min
9/6/2023 10:59 AM	10:00	4.62 pH	20.52 °C	1,102.5 µS/cm	0.34 mg/L	59.00 NTU	487.0 mV	10.89 ft	250.00 ml/min
9/6/2023 11:04 AM	15:00	4.63 pH	20.25 °C	1,103.6 µS/cm	0.33 mg/L	46.60 NTU	486.9 mV	10.89 ft	200.00 ml/min
9/6/2023 11:09 AM	20:00	4.63 pH	20.36 °C	1,105.3 µS/cm	0.33 mg/L	28.50 NTU	485.6 mV	10.86 ft	200.00 ml/min
9/6/2023 11:14 AM	25:00	4.63 pH	20.64 °C	1,105.9 µS/cm	0.31 mg/L	24.30 NTU	572.6 mV	10.85 ft	200.00 ml/min
9/6/2023 11:19 AM	30:00	4.63 pH	20.85 °C	1,103.9 µS/cm	0.29 mg/L	13.50 NTU	573.4 mV	10.86 ft	200.00 ml/min
9/6/2023 11:24 AM	35:00	4.66 pH	20.80 °C	1,100.0 µS/cm	0.29 mg/L	9.50 NTU	490.0 mV	10.86 ft	200.00 ml/min
9/6/2023 11:29 AM	40:00	4.78 pH	20.83 °C	1,126.5 µS/cm	0.27 mg/L	7.50 NTU	482.3 mV	10.87 ft	200.00 ml/min
9/6/2023 11:34 AM	45:00	4.84 pH	20.46 °C	1,134.6 µS/cm	0.26 mg/L	5.25 NTU	478.0 mV	10.88 ft	200.00 ml/min
9/6/2023 11:39 AM	50:00	4.85 pH	20.92 °C	1,129.6 µS/cm	0.26 mg/L	3.11 NTU	476.4 mV	10.87 ft	200.00 ml/min
9/6/2023 11:44 AM	55:00	4.85 pH	20.91 °C	1,121.6 µS/cm	0.26 mg/L	2.60 NTU	476.9 mV	10.86 ft	200.00 ml/min
9/6/2023 11:49 AM	01:00:00	4.85 pH	21.15 °C	1,119.7 µS/cm	0.26 mg/L	2.08 NTU	477.6 mV	10.89 ft	200.00 ml/min

Samples

Sample ID:	Description:
McD-B-93	
MCD-FD-4	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/6/2023 12:59:45 PM
Project: SCS MCD (3)
Operator Name: Dana Bloomfield

Location Name: MCD-B-97 **Well Diameter: 2 in** **Casing Type: PVC** **Total Depth: 30.71 ft** **Initial Depth to Water: 6.5 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/6/2023 12:59 PM	00:00	5.57 pH	24.62 °C	1,328.0 µS/cm	0.22 mg/L	1.73 NTU	304.7 mV	6.50 ft	200.00 ml/min
9/6/2023 1:04 PM	05:00	5.60 pH	23.35 °C	1,355.0 µS/cm	0.15 mg/L	4.75 NTU	352.0 mV	6.50 ft	200.00 ml/min
9/6/2023 1:09 PM	10:00	5.59 pH	23.54 °C	1,356.8 µS/cm	0.14 mg/L	3.95 NTU	509.2 mV	6.50 ft	200.00 ml/min
9/6/2023 1:14 PM	15:00	5.61 pH	23.19 °C	1,356.7 µS/cm	0.12 mg/L	1.15 NTU	353.2 mV	6.50 ft	200.00 ml/min
9/6/2023 1:19 PM	20:00	5.61 pH	23.16 °C	1,354.6 µS/cm	0.10 mg/L	2.01 NTU	357.3 mV	6.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-97	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/6/2023 1:05:01 PM
Project: McDonoughSAGW02 2023 (2)
Operator Name: Mark Mann

Location Name: MCD-B-98 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.01 ft** **Total Depth: 19.01 ft** **Initial Depth to Water: 9.76 ft**	**Pump Type: Peri** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 22250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 8.39 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.0

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	
9/6/2023 1:05 PM	00:00	6.23 pH	31.71 °C	174.91 µS/cm	3.73 mg/L	101.00 NTU	237.9 mV	9.76 ft	300.00 ml/min
9/6/2023 1:10 PM	05:00	6.30 pH	22.30 °C	193.88 µS/cm	1.69 mg/L	86.20 NTU	226.2 mV	11.13 ft	300.00 ml/min
9/6/2023 1:15 PM	10:00	6.33 pH	21.73 °C	196.91 µS/cm	0.85 mg/L	130.00 NTU	222.5 mV	12.06 ft	300.00 ml/min
9/6/2023 1:20 PM	15:00	6.34 pH	21.50 °C	202.57 µS/cm	0.72 mg/L	135.00 NTU	145.2 mV	13.16 ft	300.00 ml/min
9/6/2023 1:25 PM	20:00	6.40 pH	21.16 °C	205.55 µS/cm	1.02 mg/L	146.00 NTU	152.9 mV	13.77 ft	250.00 ml/min
9/6/2023 1:30 PM	25:00	6.28 pH	21.77 °C	214.07 µS/cm	5.65 mg/L	112.00 NTU	196.8 mV	13.99 ft	200.00 ml/min
9/6/2023 1:35 PM	30:00	6.37 pH	22.19 °C	216.55 µS/cm	4.66 mg/L	109.00 NTU	133.6 mV	14.28 ft	200.00 ml/min
9/6/2023 1:40 PM	35:00	6.41 pH	21.01 °C	208.51 µS/cm	1.20 mg/L	214.00 NTU	88.3 mV	14.75 ft	200.00 ml/min
9/6/2023 1:45 PM	40:00	6.38 pH	20.92 °C	207.49 µS/cm	1.37 mg/L	166.00 NTU	110.1 mV	15.48 ft	200.00 ml/min
9/6/2023 1:50 PM	45:00	6.37 pH	20.98 °C	207.05 µS/cm	1.30 mg/L	119.00 NTU	114.1 mV	15.89 ft	200.00 ml/min
9/6/2023 1:55 PM	50:00	6.38 pH	21.19 °C	215.20 µS/cm	1.25 mg/L	84.50 NTU	118.2 mV	16.18 ft	200.00 ml/min
9/6/2023 2:00 PM	55:00	6.36 pH	21.27 °C	212.35 µS/cm	1.20 mg/L	60.00 NTU	118.4 mV	16.60 ft	200.00 ml/min
9/6/2023 2:05 PM	01:00:00	6.32 pH	21.28 °C	217.37 µS/cm	1.30 mg/L	56.30 NTU	95.2 mV	16.88 ft	200.00 ml/min

9/6/2023 2:10 PM	01:05:00	6.30 pH	21.28 °C	217.72 µS/cm	1.49 mg/L	47.60 NTU	112.8 mV	16.99 ft	100.00 ml/min
9/6/2023 2:15 PM	01:10:00	6.29 pH	21.40 °C	219.84 µS/cm	1.52 mg/L	39.60 NTU	99.1 mV	17.15 ft	100.00 ml/min
9/6/2023 2:20 PM	01:15:00	6.27 pH	21.52 °C	221.89 µS/cm	1.62 mg/L	32.40 NTU	125.7 mV	17.42 ft	100.00 ml/min
9/6/2023 2:25 PM	01:20:00	6.25 pH	21.59 °C	227.62 µS/cm	1.71 mg/L	32.80 NTU	103.6 mV	17.58 ft	100.00 ml/min
9/6/2023 2:30 PM	01:25:00	6.24 pH	21.52 °C	233.15 µS/cm	1.92 mg/L	30.80 NTU	126.8 mV	17.62 ft	100.00 ml/min
9/6/2023 2:35 PM	01:30:00	6.22 pH	21.50 °C	237.26 µS/cm	2.06 mg/L	27.40 NTU	104.9 mV	17.80 ft	100.00 ml/min
9/6/2023 2:40 PM	01:35:00	6.22 pH	21.55 °C	235.06 µS/cm	2.12 mg/L	24.90 NTU	126.2 mV	17.89 ft	100.00 ml/min
9/6/2023 2:45 PM	01:40:00	6.20 pH	21.68 °C	241.23 µS/cm	2.24 mg/L	24.10 NTU	129.5 mV	17.98 ft	100.00 ml/min
9/6/2023 2:50 PM	01:45:00	6.19 pH	21.73 °C	247.19 µS/cm	2.38 mg/L	22.10 NTU	102.4 mV	18.12 ft	100.00 ml/min
9/6/2023 2:55 PM	01:50:00	6.16 pH	21.84 °C	250.21 µS/cm	2.53 mg/L	112.00 NTU	116.7 mV	18.14 ft	100.00 ml/min
9/6/2023 3:00 PM	01:55:00	6.17 pH	22.01 °C	254.02 µS/cm	2.70 mg/L	49.20 NTU	101.6 mV	18.16 ft	100.00 ml/min
9/6/2023 3:05 PM	02:00:00	6.15 pH	22.04 °C	257.45 µS/cm	2.74 mg/L	27.90 NTU	104.2 mV	18.18 ft	100.00 ml/min
9/6/2023 3:10 PM	02:05:00	6.14 pH	22.12 °C	259.57 µS/cm	2.75 mg/L	13.10 NTU	106.3 mV	18.13 ft	100.00 ml/min
9/6/2023 3:15 PM	02:10:00	6.15 pH	22.18 °C	256.63 µS/cm	2.74 mg/L	5.88 NTU	128.9 mV	18.12 ft	100.00 ml/min
9/6/2023 3:20 PM	02:15:00	6.16 pH	22.14 °C	260.09 µS/cm	2.70 mg/L	4.80 NTU	124.5 mV	18.15 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-98	

Low-Flow Test Report:

Test Date / Time: 9/6/2023 9:19:43 AM
Project: SCS MCD
Operator Name: Dana Bloomfield

Location Name: SCS-MCD-B-100 **Well Diameter: 2 in** **Casing Type: PVC** **Initial Depth to Water: 32.59 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 9706.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -22.657 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Weather Conditions:
Sunny 85F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/6/2023 9:19 AM	00:00	5.25 pH	23.39 °C	696.92 µS/cm	4.68 mg/L	34.00 NTU	97.9 mV	32.59 ft	200.00 ml/min
9/6/2023 9:24 AM	05:00	5.22 pH	21.43 °C	772.85 µS/cm	0.47 mg/L	16.90 NTU	-24.5 mV	32.59 ft	200.00 ml/min
9/6/2023 9:29 AM	10:00	5.23 pH	21.70 °C	774.04 µS/cm	0.42 mg/L	17.80 NTU	-35.7 mV	32.59 ft	200.00 ml/min
9/6/2023 9:34 AM	15:00	5.24 pH	21.67 °C	774.36 µS/cm	0.39 mg/L	9.98 NTU	-35.1 mV	32.59 ft	200.00 ml/min
9/6/2023 9:39 AM	20:00	5.24 pH	21.68 °C	776.19 µS/cm	0.35 mg/L	8.25 NTU	-32.6 mV	32.59 ft	200.00 ml/min
9/6/2023 9:44 AM	25:00	5.25 pH	21.67 °C	777.56 µS/cm	0.29 mg/L	7.71 NTU	-10.6 mV	32.59 ft	200.00 ml/min
9/6/2023 9:46 AM	26:41	5.24 pH	21.69 °C	777.73 µS/cm	0.29 mg/L	6.62 NTU	-7.2 mV	32.59 ft	200.00 ml/min
9/6/2023 9:51 AM	31:41	5.25 pH	21.73 °C	776.36 µS/cm	0.27 mg/L	5.69 NTU	-7.2 mV	32.59 ft	200.00 ml/min
9/6/2023 9:56 AM	36:41	5.25 pH	21.73 °C	775.13 µS/cm	0.25 mg/L	5.38 NTU	-5.0 mV	32.59 ft	200.00 ml/min
9/6/2023 9:58 AM	38:32	5.25 pH	21.79 °C	774.95 µS/cm	0.25 mg/L	5.68 NTU	-2.7 mV	32.59 ft	200.00 ml/min
9/6/2023 10:03 AM	43:32	5.25 pH	21.86 °C	775.01 µS/cm	0.23 mg/L	5.95 NTU	-3.3 mV	32.59 ft	200.00 ml/min
9/6/2023 10:08 AM	48:32	5.25 pH	21.94 °C	773.74 µS/cm	0.23 mg/L	3.55 NTU	-1.7 mV	32.59 ft	200.00 ml/min

Samples

MCD-B-100	Description:

Low-Flow Test Report:

Test Date / Time: 9/8/2023 9:45:07 AM
Project: SCS Plant McDonough (4)
Operator Name: Daniel Howard

Location Name: MCD-B-101D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 64.9 ft** **Total Depth: 74.9 ft** **Initial Depth to Water: 38.21 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 69.9 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-B-101D sample time 1035.

Weather Conditions:
Clear and sunny, temp 68 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/8/2023 9:45 AM	00:00	6.34 pH	22.96 °C	774.32 µS/cm	1.05 mg/L	8.77 NTU	78.5 mV	38.21 ft	100.00 ml/min
9/8/2023 9:50 AM	05:00	6.11 pH	21.10 °C	797.31 µS/cm	0.64 mg/L	7.39 NTU	73.7 mV	40.06 ft	100.00 ml/min
9/8/2023 9:55 AM	10:00	6.09 pH	21.06 °C	798.57 µS/cm	0.56 mg/L	6.79 NTU	82.0 mV	40.28 ft	100.00 ml/min
9/8/2023 10:00 AM	15:00	6.09 pH	21.01 °C	798.68 µS/cm	0.47 mg/L	5.95 NTU	81.9 mV	40.51 ft	100.00 ml/min
9/8/2023 10:05 AM	20:00	6.08 pH	20.98 °C	799.30 µS/cm	0.39 mg/L	6.09 NTU	74.0 mV	40.68 ft	100.00 ml/min
9/8/2023 10:10 AM	25:00	6.08 pH	21.02 °C	801.22 µS/cm	0.38 mg/L	5.37 NTU	74.2 mV	40.88 ft	100.00 ml/min
9/8/2023 10:15 AM	30:00	6.07 pH	21.15 °C	805.57 µS/cm	0.36 mg/L	4.33 NTU	74.7 mV	40.96 ft	100.00 ml/min
9/8/2023 10:20 AM	35:00	6.06 pH	21.07 °C	810.57 µS/cm	0.32 mg/L	4.18 NTU	84.5 mV	41.04 ft	100.00 ml/min
9/8/2023 10:25 AM	40:00	6.05 pH	21.11 °C	816.08 µS/cm	0.31 mg/L	3.34 NTU	75.9 mV	41.16 ft	100.00 ml/min
9/8/2023 10:30 AM	45:00	6.05 pH	21.02 °C	821.57 µS/cm	0.30 mg/L	2.99 NTU	86.2 mV	41.25 ft	100.00 ml/min
9/8/2023 10:35 AM	50:00	6.04 pH	20.80 °C	826.80 µS/cm	0.27 mg/L	2.78 NTU	77.3 mV	41.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-101D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2023 10:21:39 AM
Project: SCS Plant McDonough (5)
Operator Name: Daniel Howard

Location Name: MCD-B-102D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.4 ft** **Total Depth: 84.4 ft** **Initial Depth to Water: 33.98 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 79.4 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.88 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-B-102D sample time 1046.

Weather Conditions:
Clear, sunny, temp 75 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/11/2023 10:21 AM	00:00	5.59 pH	24.27 °C	562.07 µS/cm	1.28 mg/L	2.98 NTU	75.2 mV	33.98 ft	150.00 ml/min
9/11/2023 10:26 AM	05:00	5.43 pH	22.21 °C	576.54 µS/cm	0.41 mg/L	2.68 NTU	48.4 mV	34.70 ft	150.00 ml/min
9/11/2023 10:31 AM	10:00	5.40 pH	21.94 °C	580.86 µS/cm	0.26 mg/L	3.98 NTU	34.2 mV	34.75 ft	150.00 ml/min
9/11/2023 10:36 AM	15:00	5.40 pH	21.91 °C	582.21 µS/cm	0.19 mg/L	3.34 NTU	31.5 mV	34.78 ft	150.00 ml/min
9/11/2023 10:41 AM	20:00	5.40 pH	21.91 °C	581.81 µS/cm	0.17 mg/L	2.20 NTU	33.4 mV	34.82 ft	150.00 ml/min
9/11/2023 10:46 AM	25:00	5.39 pH	22.42 °C	582.04 µS/cm	0.14 mg/L	1.83 NTU	37.4 mV	34.86 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-102D	

Low-Flow Test Report:

Test Date / Time: 9/13/2023 11:19:11 AM
Project: MCD SAGW 2 (20)
Operator Name: P Wahl

Location Name: MCD-B-104D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50 ft** **Total Depth: 60 ft** **Initial Depth to Water: 5.44 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 10050 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 7.71 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/13/2023 11:19 AM	00:00	6.31 pH	28.83 °C	970.33 µS/cm	3.98 mg/L	66.00 NTU	94.6 mV	6.02 ft	200.00 ml/min
9/13/2023 11:24 AM	05:00	6.19 pH	21.55 °C	1,045.6 µS/cm	0.49 mg/L	10.40 NTU	48.3 mV	7.75 ft	200.00 ml/min
9/13/2023 11:29 AM	10:00	6.22 pH	21.88 °C	1,047.4 µS/cm	0.31 mg/L	3.71 NTU	36.6 mV	9.51 ft	200.00 ml/min
9/13/2023 11:34 AM	15:00	6.26 pH	22.22 °C	1,045.4 µS/cm	0.27 mg/L	3.45 NTU	28.8 mV	10.31 ft	120.00 ml/min
9/13/2023 11:39 AM	20:00	6.29 pH	22.26 °C	1,043.9 µS/cm	0.26 mg/L	3.31 NTU	25.0 mV	10.91 ft	120.00 ml/min
9/13/2023 11:44 AM	25:00	6.32 pH	21.92 °C	1,045.4 µS/cm	0.24 mg/L	3.65 NTU	19.6 mV	11.51 ft	120.00 ml/min
9/13/2023 11:49 AM	30:00	6.42 pH	22.19 °C	1,049.2 µS/cm	0.23 mg/L	3.47 NTU	12.6 mV	11.75 ft	100.00 ml/min
9/13/2023 11:54 AM	35:00	6.66 pH	22.82 °C	1,056.1 µS/cm	0.21 mg/L	4.44 NTU	1.6 mV	11.92 ft	100.00 ml/min
9/13/2023 11:59 AM	40:00	6.70 pH	23.51 °C	1,057.7 µS/cm	0.20 mg/L	7.39 NTU	-7.7 mV	12.07 ft	100.00 ml/min
9/13/2023 12:04 PM	45:00	6.68 pH	23.74 °C	1,058.2 µS/cm	0.19 mg/L	11.90 NTU	-11.0 mV	12.15 ft	100.00 ml/min
9/13/2023 12:09 PM	50:00	6.59 pH	22.57 °C	1,050.0 µS/cm	0.23 mg/L	9.58 NTU	-8.4 mV	12.62 ft	250.00 ml/min
9/13/2023 12:14 PM	55:00	6.57 pH	22.88 °C	1,047.3 µS/cm	0.17 mg/L	6.86 NTU	-4.9 mV	12.87 ft	100.00 ml/min
9/13/2023 12:19 PM	01:00:00	6.55 pH	22.37 °C	1,049.6 µS/cm	0.15 mg/L	5.41 NTU	-3.1 mV	13.11 ft	100.00 ml/min
9/13/2023 12:24 PM	01:05:00	6.51 pH	22.76 °C	1,047.5 µS/cm	0.14 mg/L	5.81 NTU	-2.5 mV	13.30 ft	100.00 ml/min
9/13/2023 12:29 PM	01:10:00	6.47 pH	23.60 °C	1,047.3 µS/cm	0.13 mg/L	4.74 NTU	-0.8 mV	13.22 ft	100.00 ml/min

9/13/2023 12:34 PM	01:15:00	6.44 pH	23.56 °C	1,050.4 µS/cm	0.13 mg/L	3.12 NTU	0.1 mV	13.15 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-104D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2023 3:12:44 PM
Project: SCS Plant McDonough (7)
Operator Name: Daniel Howard

Location Name: MCD-B-106D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69.4 ft** **Total Depth: 79.4 ft** **Initial Depth to Water: 37.75 ft**	**Pump Type: bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 74.4 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-B-106D sample time 1538.

Weather Conditions:
Partly sunny, 87 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/11/2023 3:12 PM	00:00	5.79 pH	27.20 °C	356.79 µS/cm	1.58 mg/L	0.47 NTU	150.9 mV	37.75 ft	200.00 ml/min
9/11/2023 3:17 PM	05:00	5.81 pH	22.62 °C	371.82 µS/cm	1.73 mg/L	0.54 NTU	124.1 mV	38.27 ft	200.00 ml/min
9/11/2023 3:22 PM	10:00	5.81 pH	22.36 °C	376.10 µS/cm	1.57 mg/L	0.52 NTU	136.7 mV	38.29 ft	200.00 ml/min
9/11/2023 3:27 PM	15:00	5.81 pH	22.00 °C	374.56 µS/cm	1.42 mg/L	0.48 NTU	136.2 mV	38.30 ft	200.00 ml/min
9/11/2023 3:32 PM	20:00	5.81 pH	21.92 °C	374.40 µS/cm	1.36 mg/L	0.38 NTU	135.1 mV	38.30 ft	200.00 ml/min
9/11/2023 3:37 PM	25:00	5.80 pH	21.91 °C	374.49 µS/cm	1.34 mg/L	0.36 NTU	134.6 mV	38.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-106D	

Low-Flow Test Report:

Test Date / Time: 9/12/2023 9:21:21 AM
Project: MCD SAGW 2 (14)
Operator Name: P Wahl

Location Name: MCD-B-107D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 75.58 ft** **Total Depth: 85.5 ft** **Initial Depth to Water: 24.23 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 78 ft** **Estimated Total Volume Pumped: 3250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/12/2023 9:21 AM	00:00	6.44 pH	25.13 °C	620.59 µS/cm	4.59 mg/L	2.51 NTU	78.7 mV	24.48 ft	130.00 ml/min
9/12/2023 9:26 AM	05:00	5.83 pH	21.45 °C	700.75 µS/cm	0.64 mg/L	1.98 NTU	66.7 mV	24.51 ft	130.00 ml/min
9/12/2023 9:31 AM	10:00	5.83 pH	21.07 °C	705.60 µS/cm	0.37 mg/L	1.03 NTU	66.1 mV	24.52 ft	130.00 ml/min
9/12/2023 9:36 AM	15:00	5.84 pH	20.96 °C	705.20 µS/cm	0.28 mg/L	1.65 NTU	60.5 mV	24.52 ft	130.00 ml/min
9/12/2023 9:41 AM	20:00	5.85 pH	20.88 °C	697.55 µS/cm	0.26 mg/L	2.10 NTU	59.1 mV	24.52 ft	130.00 ml/min
9/12/2023 9:46 AM	25:00	5.85 pH	20.97 °C	704.45 µS/cm	0.26 mg/L	1.51 NTU	55.3 mV	24.52 ft	130.00 ml/min

Samples

Sample ID:	Description:
MCD-B-107D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/13/2023 1:34:17 PM
Project: McDonoughSAGW02 2023 (17)
Operator Name: Mark Mann

Location Name: MCD-B-108D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69 ft** **Total Depth: 79 ft** **Initial Depth to Water: 23.39 ft**	**Pump Type: Peri** **Tubing Type: LDPE** **Pump Intake From TOC: 74 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.65 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: 0.5

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	
9/13/2023 1:34 PM	00:00	7.18 pH	35.11 °C	671.17 µS/cm	3.40 mg/L	0.60 NTU	86.4 mV	23.39 ft	200.00 ml/min
9/13/2023 1:39 PM	05:00	5.92 pH	22.72 °C	763.20 µS/cm	0.47 mg/L	1.07 NTU	68.3 mV	23.96 ft	200.00 ml/min
9/13/2023 1:44 PM	10:00	5.89 pH	22.22 °C	773.21 µS/cm	0.31 mg/L	1.10 NTU	78.5 mV	23.99 ft	200.00 ml/min
9/13/2023 1:49 PM	15:00	5.89 pH	22.02 °C	767.57 µS/cm	0.25 mg/L	0.81 NTU	66.3 mV	24.02 ft	200.00 ml/min
9/13/2023 1:54 PM	20:00	5.88 pH	21.67 °C	772.56 µS/cm	0.22 mg/L	0.47 NTU	65.0 mV	24.04 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-108D	

Low-Flow Test Report:

Test Date / Time: 9/13/2023 12:10:57 PM
Project: SCS Plant McDonough (12)
Operator Name: Daniel Howard

Location Name: MCD-B-111D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.2 ft** **Total Depth: 84.2 ft** **Initial Depth to Water: 11.27 ft**	**Pump Type: Peristaltic** **Tubing Type: HDPE** **Pump Intake From TOC: 79.2 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.61 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
MCD-B-111D sample time 1242.

Weather Conditions:
Partly sunny, temp 78 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/13/2023 12:10 PM	00:00	7.23 pH	22.31 °C	893.21 µS/cm	0.30 mg/L	2.63 NTU	-122.9 mV	11.27 ft	200.00 ml/min
9/13/2023 12:15 PM	05:00	7.34 pH	21.28 °C	856.16 µS/cm	0.21 mg/L	1.92 NTU	-102.6 mV	12.43 ft	200.00 ml/min
9/13/2023 12:20 PM	10:00	7.25 pH	20.89 °C	809.43 µS/cm	0.19 mg/L	2.20 NTU	-103.8 mV	12.54 ft	200.00 ml/min
9/13/2023 12:25 PM	15:00	7.16 pH	20.70 °C	773.33 µS/cm	0.17 mg/L	2.76 NTU	-70.0 mV	12.65 ft	200.00 ml/min
9/13/2023 12:30 PM	20:00	7.09 pH	20.76 °C	757.44 µS/cm	0.16 mg/L	1.86 NTU	-80.6 mV	12.74 ft	200.00 ml/min
9/13/2023 12:35 PM	25:00	7.04 pH	20.41 °C	746.91 µS/cm	0.15 mg/L	2.28 NTU	-56.5 mV	12.83 ft	200.00 ml/min
9/13/2023 12:40 PM	30:00	7.01 pH	20.40 °C	738.99 µS/cm	0.15 mg/L	2.27 NTU	-69.6 mV	12.88 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-111D	

Low-Flow Test Report:

Test Date / Time: 9/12/2023 9:04:43 AM
Project: SCS MCD (10)
Operator Name: Dana Bloomfield

Location Name: MCD-B-120D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.08 ft** **Total Depth: 72.08 ft** **Initial Depth to Water: 35.23 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 6570 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/12/2023 9:04 AM	00:00	9.01 pH	26.54 °C	0.70 µS/cm	8.01 mg/L		62.0 mV	35.23 ft	200.00 ml/min
9/12/2023 9:07 AM	02:51	5.47 pH	22.67 °C	805.84 µS/cm	3.24 mg/L	31.30 NTU	26.0 mV	35.23 ft	200.00 ml/min
9/12/2023 9:12 AM	07:51	5.35 pH	20.22 °C	879.77 µS/cm	1.93 mg/L	9.76 NTU	45.7 mV	35.28 ft	200.00 ml/min
9/12/2023 9:17 AM	12:51	5.34 pH	20.39 °C	872.21 µS/cm	1.63 mg/L	6.94 NTU	55.2 mV	35.28 ft	200.00 ml/min
9/12/2023 9:22 AM	17:51	5.31 pH	20.58 °C	873.80 µS/cm	1.35 mg/L	3.65 NTU	69.9 mV	35.25 ft	200.00 ml/min
9/12/2023 9:27 AM	22:51	5.28 pH	20.66 °C	871.82 µS/cm	0.80 mg/L	5.45 NTU	93.5 mV	35.25 ft	200.00 ml/min
9/12/2023 9:32 AM	27:51	5.28 pH	20.66 °C	873.04 µS/cm	0.83 mg/L	2.96 NTU	94.2 mV	35.25 ft	200.00 ml/min
9/12/2023 9:37 AM	32:51	5.27 pH	20.75 °C	870.83 µS/cm	0.83 mg/L	3.55 NTU	116.7 mV	35.25 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-120D	

Low-Flow Test Report:

Test Date / Time: 9/7/2023 2:18:05 PM
Project: SCS Plant McDonough (2)
Operator Name: Daniel Howard

Location Name: MCD-B-122D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.63 ft** **Total Depth: 80.63 ft** **Initial Depth to Water: 28.7 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 75.6 ft** **Estimated Total Volume Pumped: 5988.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Instrument disconnected had to restart run.

Weather Conditions:
Hot, partly sunny, temp 88 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/7/2023 2:18 PM	00:00	5.96 pH	25.44 °C	452.63 µS/cm	0.80 mg/L	8.38 NTU	-52.8 mV	28.70 ft	100.00 ml/min
9/7/2023 2:23 PM	05:00	5.93 pH	25.45 °C	451.72 µS/cm	0.57 mg/L	5.17 NTU	-45.5 mV	29.94 ft	100.00 ml/min
9/7/2023 2:28 PM	10:00	5.93 pH	25.55 °C	452.06 µS/cm	0.44 mg/L	2.72 NTU	-63.7 mV	30.02 ft	100.00 ml/min
9/7/2023 2:33 PM	15:00	5.93 pH	25.42 °C	453.09 µS/cm	0.38 mg/L	3.72 NTU	-44.9 mV	30.02 ft	100.00 ml/min
9/7/2023 2:38 PM	20:00	5.92 pH	25.22 °C	436.12 µS/cm	0.36 mg/L	1.28 NTU	-68.4 mV	30.06 ft	100.00 ml/min
9/7/2023 2:43 PM	25:00	5.93 pH	25.30 °C	463.70 µS/cm	0.94 mg/L	0.97 NTU	-71.2 mV	30.06 ft	100.00 ml/min
9/7/2023 2:57 PM	39:00	5.94 pH	25.37 °C	475.82 µS/cm	0.25 mg/L	0.93 NTU	-56.2 mV	30.06 ft	100.00 ml/min
9/7/2023 3:00 PM	42:11	5.94 pH	24.94 °C	477.04 µS/cm	0.24 mg/L	1.14 NTU	-54.4 mV	30.06 ft	100.00 ml/min
9/7/2023 3:05 PM	47:11	5.94 pH	24.72 °C	481.47 µS/cm	0.23 mg/L	2.37 NTU	-78.0 mV	30.06 ft	100.00 ml/min
9/7/2023 3:10 PM	52:11	5.94 pH	24.72 °C	482.60 µS/cm	0.21 mg/L	1.27 NTU	-78.9 mV	30.06 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/14/2023 9:53:06 AM
Project: SCS Plant McDonough (14)
Operator Name: mark Mann

Location Name: MCD-B-125D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 135 ft** **Total Depth: 145 ft** **Initial Depth to Water: 80.79 ft**	**Pump Type: bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 140 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.76 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Fe2+: >7.0

119 L purged between 09/12 and 09/13. Well purged dry on 09/13.

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	
9/14/2023 9:53 AM	00:00	6.43 pH	27.57 °C	866.65 µS/cm	5.58 mg/L	15.30 NTU	31.8 mV	80.79 ft	200.00 ml/min
9/14/2023 9:58 AM	05:00	5.89 pH	21.23 °C	1,109.2 µS/cm	1.74 mg/L	7.82 NTU	69.2 mV	80.99 ft	200.00 ml/min
9/14/2023 10:03 AM	10:00	5.84 pH	21.05 °C	1,117.6 µS/cm	1.63 mg/L	3.03 NTU	82.5 mV	82.55 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-125D	

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APPENDIX A

Field Data Forms
January-February 2024

Low-Flow Test Report:

Test Date / Time: 2/1/2024 10:20:05 AM
Project: McDonough SAGW01 2024
Operator Name: Mark Mann

Location Name: MCD-DGWC-2 **Latitude: 33.831681843390776** **Longitude: -84.47775071031438** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.42 ft** **Total Depth: 52.42 ft** **Initial Depth to Water: 31.46 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 43.89 ft** **Estimated Total Volume Pumped: 5125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:

Weather Conditions:
Clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2024 10:20 AM	00:00	6.22 pH	16.81 °C	307.90 µS/cm	5.17 mg/L	9.79 NTU	142.2 mV	31.46 ft	300.00 ml/min
2/1/2024 10:25 AM	05:00	6.05 pH	17.37 °C	308.21 µS/cm	1.00 mg/L	13.80 NTU	95.5 mV	32.08 ft	300.00 ml/min
2/1/2024 10:30 AM	10:00	6.02 pH	17.47 °C	311.04 µS/cm	0.36 mg/L	13.30 NTU	129.4 mV	32.04 ft	300.00 ml/min
2/1/2024 10:35 AM	15:00	6.02 pH	17.24 °C	305.15 µS/cm	0.31 mg/L	7.65 NTU	73.2 mV	31.95 ft	125.00 ml/min
2/1/2024 10:40 AM	20:00	6.02 pH	16.83 °C	310.26 µS/cm	0.49 mg/L	1.27 NTU	64.5 mV	31.78 ft	125.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-2	Extra Rads

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:50:55 AM
Project: McDonough SAGW01 2024
Operator Name: Mark Mann

Location Name: MCD-DGWC-4 **Latitude: 33.83226071021876** **Longitude: -84.47596739985465** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.71 ft** **Total Depth: 46.71 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 38.66 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 140 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

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	
2/1/2024 11:50 AM	00:00	7.67 pH	16.89 °C	1,605.3 µS/cm	7.91 mg/L	3.71 NTU	105.3 mV	25.30 ft	140.00 ml/min
2/1/2024 11:55 AM	05:00	5.71 pH	16.28 °C	1,666.6 µS/cm	1.83 mg/L	0.48 NTU	96.8 mV	25.51 ft	140.00 ml/min
2/1/2024 12:00 PM	10:00	5.67 pH	16.40 °C	1,704.9 µS/cm	1.25 mg/L	0.56 NTU	64.0 mV	25.49 ft	140.00 ml/min
2/1/2024 12:05 PM	15:00	5.67 pH	16.42 °C	1,710.1 µS/cm	0.99 mg/L	0.37 NTU	42.9 mV	25.53 ft	140.00 ml/min
2/1/2024 12:10 PM	20:00	5.67 pH	16.38 °C	1,706.4 µS/cm	0.90 mg/L	0.58 NTU	32.9 mV	25.49 ft	140.00 ml/min
2/1/2024 12:15 PM	25:00	5.67 pH	16.42 °C	1,715.6 µS/cm	0.90 mg/L	0.41 NTU	28.1 mV	25.50 ft	140.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-4	

Low-Flow Test Report:

Test Date / Time: 2/1/2024 1:08:23 PM
Project: McDonough SAGW01 2024
Operator Name: Mark Mann

Location Name: MCD-DGWC-5 **Latitude: 33.83267238739303** **Longitude: -84.47498269387006** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.25 ft** **Total Depth: 33.25 ft** **Initial Depth to Water: 12.83 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 24.62 ft** **Estimated Total Volume Pumped: 5308.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:

Weather Conditions:
Clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2024 1:08 PM	00:00	5.20 pH	19.11 °C	1,086.9 µS/cm	6.01 mg/L	0.46 NTU	193.0 mV	12.83 ft	260.00 ml/min
2/1/2024 1:13 PM	05:00	4.80 pH	17.69 °C	1,090.7 µS/cm	1.24 mg/L	0.26 NTU	485.1 mV	13.13 ft	260.00 ml/min
2/1/2024 1:18 PM	10:00	4.79 pH	17.80 °C	1,077.7 µS/cm	0.71 mg/L	0.30 NTU	496.1 mV	13.17 ft	260.00 ml/min
2/1/2024 1:23 PM	15:25	4.78 pH	17.77 °C	1,087.9 µS/cm	0.54 mg/L	0.28 NTU	477.3 mV	13.19 ft	260.00 ml/min
2/1/2024 1:28 PM	20:25	4.78 pH	17.81 °C	1,079.7 µS/cm	0.45 mg/L	0.27 NTU	480.6 mV	13.13 ft	260.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-5	Extra Rads

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 2:18:25 PM
Project: McDonough SAGW01 2024
Operator Name: Mark Mann

Location Name: MCD-DGWC-8 **Latitude: 33.83272154725513** **Longitude: -84.47194316432297** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.33 ft** **Total Depth: 51.33 ft** **Initial Depth to Water: 39.92 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 43.21 ft** **Estimated Total Volume Pumped: 7591.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2024 2:18 PM	00:00	6.36 pH	23.14 °C	341.65 µS/cm	7.11 mg/L	0.20 NTU	185.0 mV	39.92 ft	250.00 ml/min
2/1/2024 2:23 PM	05:00	5.25 pH	18.98 °C	360.64 µS/cm	2.68 mg/L	0.25 NTU	124.1 mV	40.10 ft	250.00 ml/min
2/1/2024 2:28 PM	10:00	5.20 pH	18.49 °C	363.03 µS/cm	1.43 mg/L	0.13 NTU	86.6 mV	40.08 ft	250.00 ml/min
2/1/2024 2:33 PM	15:00	5.03 pH	18.54 °C	364.46 µS/cm	0.94 mg/L	0.49 NTU	67.9 mV	40.13 ft	250.00 ml/min
2/1/2024 2:38 PM	20:00	5.20 pH	18.58 °C	362.07 µS/cm	0.82 mg/L	0.10 NTU	57.8 mV	40.15 ft	250.00 ml/min
2/1/2024 2:43 PM	25:00	5.18 pH	18.78 °C	366.17 µS/cm	0.77 mg/L	0.15 NTU	93.1 mV	40.13 ft	250.00 ml/min
2/1/2024 2:48 PM	30:00	5.21 pH	18.74 °C	363.01 µS/cm	0.74 mg/L	0.41 NTU	50.5 mV	40.13 ft	250.00 ml/min
2/1/2024 2:48 PM	30:22	5.17 pH	18.65 °C	357.84 µS/cm	0.74 mg/L	0.41 NTU	38.4 mV	40.13 ft	250.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-8	

Low-Flow Test Report:

Test Date / Time: 2/2/2024 11:07:09 AM
Project: MCD SAGW 1 (12)
Operator Name: P Wahl

Location Name: MCD-DGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.8 ft** **Total Depth: 47.8 ft** **Initial Depth to Water: 30.08 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 39.62 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/2/2024 11:07 AM	00:00	4.98 pH	25.04 °C	480.19 µS/cm	6.70 mg/L	0.79 NTU	96.6 mV	30.08 ft	100.00 ml/min
2/2/2024 11:12 AM	05:00	4.76 pH	18.35 °C	646.24 µS/cm	6.13 mg/L	0.54 NTU	67.6 mV	30.24 ft	150.00 ml/min
2/2/2024 11:17 AM	10:00	4.75 pH	18.12 °C	664.09 µS/cm	5.73 mg/L	0.51 NTU	112.6 mV	30.33 ft	150.00 ml/min
2/2/2024 11:22 AM	15:00	4.73 pH	18.10 °C	673.79 µS/cm	5.52 mg/L	0.26 NTU	62.5 mV	30.31 ft	150.00 ml/min
2/2/2024 11:27 AM	20:00	4.73 pH	18.19 °C	675.82 µS/cm	5.54 mg/L	0.42 NTU	109.5 mV	30.33 ft	150.00 ml/min
2/2/2024 11:32 AM	25:00	4.72 pH	18.43 °C	676.78 µS/cm	5.51 mg/L	0.59 NTU	109.9 mV	30.34 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-10	

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Low-Flow Test Report:

Test Date / Time: 2/1/2024 2:13:16 PM
Project: MCD SAGW 1 (10)
Operator Name: P Wahl

Location Name: MCD-DGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 41.72 ft** **Total Depth: 51.72 ft** **Initial Depth to Water: 13.78 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 3850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.52 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/1/2024 2:13 PM	00:00	7.76 pH	19.33 °C	648.91 µS/cm	7.68 mg/L	0.67 NTU	59.3 mV	13.78 ft	110.00 ml/min
2/1/2024 2:18 PM	05:00	5.47 pH	18.16 °C	634.05 µS/cm	2.54 mg/L	0.44 NTU	97.0 mV	14.16 ft	110.00 ml/min
2/1/2024 2:23 PM	10:00	5.47 pH	18.19 °C	624.58 µS/cm	1.86 mg/L	0.26 NTU	76.9 mV	14.22 ft	110.00 ml/min
2/1/2024 2:28 PM	15:00	5.48 pH	18.17 °C	624.61 µS/cm	1.62 mg/L	0.54 NTU	69.4 mV	14.25 ft	110.00 ml/min
2/1/2024 2:33 PM	20:00	5.48 pH	18.12 °C	623.06 µS/cm	1.43 mg/L	0.31 NTU	65.4 mV	14.27 ft	110.00 ml/min
2/1/2024 2:38 PM	25:00	5.48 pH	18.13 °C	618.27 µS/cm	1.27 mg/L	0.32 NTU	62.3 mV	14.29 ft	110.00 ml/min
2/1/2024 2:43 PM	30:00	5.48 pH	18.17 °C	619.15 µS/cm	1.22 mg/L	0.30 NTU	34.1 mV	14.30 ft	110.00 ml/min
2/1/2024 2:48 PM	35:00	5.49 pH	18.28 °C	608.58 µS/cm	1.16 mg/L	0.35 NTU	32.9 mV	14.30 ft	110.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-11	

Low-Flow Test Report:

Test Date / Time: 2/2/2024 9:01:43 AM
Project: McDonough SAGW01 2024
Operator Name: John Bankhead

Location Name: MCD-DGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.24 ft** **Total Depth: 28.24 ft** **Initial Depth to Water: 9.09 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 32900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

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	
2/2/2024 9:01 AM	00:00	5.09 pH	9.80 °C	392.19 µS/cm	11.53 mg/L	7.91 NTU	142.7 mV	9.09 ft	250.00 ml/min
2/2/2024 9:06 AM	05:00	6.08 pH	15.31 °C	465.40 µS/cm	2.84 mg/L	1,000.00 NTU	29.2 mV	9.32 ft	250.00 ml/min
2/2/2024 9:11 AM	10:00	6.16 pH	15.88 °C	467.15 µS/cm	1.06 mg/L	383.00 NTU	6.0 mV	9.40 ft	200.00 ml/min
2/2/2024 9:16 AM	15:00	6.16 pH	16.12 °C	459.49 µS/cm	0.84 mg/L	178.00 NTU	5.3 mV	9.52 ft	200.00 ml/min
2/2/2024 9:21 AM	20:00	6.16 pH	16.23 °C	456.85 µS/cm	0.73 mg/L	86.40 NTU	5.2 mV	9.44 ft	200.00 ml/min
2/2/2024 9:26 AM	25:00	6.14 pH	16.22 °C	438.97 µS/cm	0.77 mg/L	55.20 NTU	19.2 mV	9.42 ft	180.00 ml/min
2/2/2024 9:31 AM	30:00	6.15 pH	16.30 °C	440.06 µS/cm	0.72 mg/L	32.20 NTU	9.0 mV	9.47 ft	180.00 ml/min
2/2/2024 9:36 AM	35:00	6.12 pH	16.33 °C	428.01 µS/cm	0.80 mg/L	24.00 NTU	22.8 mV	9.42 ft	180.00 ml/min
2/2/2024 9:41 AM	40:00	6.11 pH	16.33 °C	453.23 µS/cm	0.83 mg/L	18.60 NTU	16.1 mV	9.47 ft	180.00 ml/min
2/2/2024 9:46 AM	45:00	6.10 pH	16.41 °C	439.81 µS/cm	0.75 mg/L	17.40 NTU	25.9 mV	9.42 ft	180.00 ml/min
2/2/2024 9:51 AM	50:00	6.10 pH	16.46 °C	459.70 µS/cm	0.80 mg/L	15.80 NTU	26.5 mV	9.47 ft	180.00 ml/min
2/2/2024 9:56 AM	55:00	6.09 pH	16.47 °C	452.72 µS/cm	0.82 mg/L	11.90 NTU	21.4 mV	9.39 ft	180.00 ml/min
2/2/2024 10:01 AM	01:00:00	6.09 pH	16.48 °C	443.40 µS/cm	1.36 mg/L	10.30 NTU	22.1 mV	9.42 ft	180.00 ml/min

2/2/2024 10:06 AM	01:05:00	6.09 pH	16.55 °C	445.57 µS/cm	1.34 mg/L	10.80 NTU	29.0 mV	9.42 ft	180.00 ml/min
2/2/2024 10:11 AM	01:10:00	6.10 pH	16.54 °C	438.67 µS/cm	1.61 mg/L	10.50 NTU	23.7 mV	9.42 ft	180.00 ml/min
2/2/2024 10:16 AM	01:15:00	6.09 pH	16.56 °C	441.17 µS/cm	1.73 mg/L	9.78 NTU	29.4 mV	9.45 ft	180.00 ml/min
2/2/2024 10:21 AM	01:20:00	6.08 pH	16.84 °C	423.85 µS/cm	1.76 mg/L	9.22 NTU	29.5 mV	9.43 ft	200.00 ml/min
2/2/2024 10:26 AM	01:25:00	6.08 pH	17.05 °C	426.66 µS/cm	1.75 mg/L	8.24 NTU	30.3 mV	9.51 ft	200.00 ml/min
2/2/2024 10:31 AM	01:30:00	6.08 pH	17.18 °C	425.65 µS/cm	1.66 mg/L	7.66 NTU	31.5 mV	9.52 ft	200.00 ml/min
2/2/2024 10:36 AM	01:35:00	6.08 pH	17.27 °C	389.64 µS/cm	1.26 mg/L	6.54 NTU	30.5 mV	9.47 ft	200.00 ml/min
2/2/2024 10:41 AM	01:40:00	6.06 pH	17.41 °C	410.17 µS/cm	5.02 mg/L	6.34 NTU	32.1 mV	9.55 ft	200.00 ml/min
2/2/2024 10:46 AM	01:45:00	6.06 pH	17.58 °C	416.85 µS/cm	1.70 mg/L	5.99 NTU	31.7 mV	9.52 ft	200.00 ml/min
2/2/2024 10:51 AM	01:50:00	6.08 pH	17.69 °C	408.28 µS/cm	1.41 mg/L	5.59 NTU	32.7 mV	9.51 ft	200.00 ml/min
2/2/2024 10:56 AM	01:55:00	6.07 pH	17.72 °C	430.52 µS/cm	2.16 mg/L	5.15 NTU	32.3 mV	9.48 ft	200.00 ml/min
2/2/2024 11:01 AM	02:00:00	6.07 pH	17.80 °C	381.51 µS/cm	2.46 mg/L	4.67 NTU	33.1 mV	9.52 ft	200.00 ml/min
2/2/2024 11:06 AM	02:05:00	6.07 pH	17.86 °C	415.39 µS/cm	2.07 mg/L	3.67 NTU	31.7 mV	9.47 ft	200.00 ml/min
2/2/2024 11:11 AM	02:10:00	6.07 pH	18.04 °C	387.67 µS/cm	5.24 mg/L	3.85 NTU	32.0 mV	9.51 ft	200.00 ml/min
2/2/2024 11:16 AM	02:15:00	6.06 pH	18.13 °C	384.60 µS/cm	2.30 mg/L	4.40 NTU	32.4 mV	9.45 ft	200.00 ml/min
2/2/2024 11:21 AM	02:20:00	6.06 pH	18.27 °C	405.22 µS/cm	4.98 mg/L	4.02 NTU	32.8 mV	9.46 ft	200.00 ml/min
2/2/2024 11:26 AM	02:25:00	6.07 pH	18.29 °C	422.57 µS/cm	3.58 mg/L	3.98 NTU	29.4 mV	9.47 ft	200.00 ml/min
2/2/2024 11:31 AM	02:30:00	6.06 pH	18.34 °C	397.81 µS/cm	1.20 mg/L	3.47 NTU	32.7 mV	9.48 ft	200.00 ml/min
2/2/2024 11:36 AM	02:35:00	6.06 pH	18.34 °C	435.89 µS/cm	4.46 mg/L	3.43 NTU	32.5 mV	9.48 ft	200.00 ml/min
2/2/2024 11:41 AM	02:40:00	6.06 pH	18.30 °C	432.37 µS/cm	4.45 mg/L	3.69 NTU	30.8 mV	9.38 ft	150.00 ml/min
2/2/2024 11:46 AM	02:45:00	6.05 pH	18.44 °C	432.68 µS/cm	1.05 mg/L	3.93 NTU	31.2 mV	9.31 ft	150.00 ml/min
2/2/2024 11:51 AM	02:50:00	6.06 pH	18.43 °C	430.97 µS/cm	1.53 mg/L	3.72 NTU	32.5 mV	9.29 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/31/2024 3:47:35 PM
Project: Plant McDonough SA (3)
Operator Name: D Bloomfield

Location Name: MCD-DGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.66 ft** **Total Depth: 46.66 ft** **Initial Depth to Water: 34.73 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 3200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	
1/31/2024 3:47 PM	00:00	5.70 pH	19.15 °C	327.19 µS/cm	5.91 mg/L	0.57 NTU	80.2 mV	34.73 ft	200.00 ml/min
1/31/2024 3:51 PM	04:00	5.76 pH	17.89 °C	329.29 µS/cm	5.05 mg/L	0.25 NTU	56.2 mV	34.75 ft	200.00 ml/min
1/31/2024 3:55 PM	08:00	5.75 pH	17.76 °C	329.78 µS/cm	4.94 mg/L	0.39 NTU	51.7 mV	34.75 ft	200.00 ml/min
1/31/2024 3:59 PM	12:00	5.74 pH	17.70 °C	329.29 µS/cm	4.81 mg/L	0.43 NTU	51.1 mV	34.75 ft	200.00 ml/min
1/31/2024 4:05 PM	18:00	5.74 pH	17.80 °C	328.25 µS/cm	4.72 mg/L	0.33 NTU	50.5 mV	34.75 ft	200.00 ml/min

Samples

Sample ID:	Description:

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Low-Flow Test Report:

Test Date / Time: 2/5/2024 8:52:35 AM
Project: MCD SAGW 1 (13)
Operator Name: P Wahl

Location Name: MCD-DGWC-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 27.95 ft** **Total Depth: 37.95 ft** **Initial Depth to Water: 20.48 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 29.6 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/5/2024 8:52 AM	00:00	6.36 pH	11.40 °C	205.24 µS/cm	9.20 mg/L	0.45 NTU	147.3 mV	20.48 ft	200.00 ml/min
2/5/2024 8:57 AM	05:00	5.67 pH	16.16 °C	164.07 µS/cm	4.96 mg/L	1.39 NTU	74.5 mV	20.51 ft	200.00 ml/min
2/5/2024 9:02 AM	10:00	5.67 pH	16.47 °C	161.72 µS/cm	4.75 mg/L	4.03 NTU	62.2 mV	20.55 ft	200.00 ml/min
2/5/2024 9:07 AM	15:00	5.68 pH	15.78 °C	160.85 µS/cm	4.57 mg/L	2.84 NTU	57.7 mV	20.56 ft	200.00 ml/min
2/5/2024 9:12 AM	20:00	5.68 pH	16.11 °C	161.02 µS/cm	4.55 mg/L	2.57 NTU	55.9 mV	20.58 ft	200.00 ml/min
2/5/2024 9:17 AM	25:00	5.68 pH	16.14 °C	160.82 µS/cm	4.54 mg/L	3.33 NTU	55.3 mV	20.59 ft	200.00 ml/min
2/5/2024 9:22 AM	30:00	5.69 pH	15.71 °C	160.40 µS/cm	4.52 mg/L	1.89 NTU	54.0 mV	20.59 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-14	

Low-Flow Test Report:

Test Date / Time: 2/5/2024 10:13:16 AM
Project: MCD SAGW 1 (14)
Operator Name: P Wahl

Location Name: MCD-DGWC-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 60.83 ft** **Total Depth: 70.83 ft** **Initial Depth to Water: 41.53 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 65 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.99 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/5/2024 10:13 AM	00:00	6.70 pH	10.12 °C	401.80 µS/cm	9.70 mg/L	0.66 NTU	69.7 mV	41.53 ft	180.00 ml/min
2/5/2024 10:18 AM	05:00	5.85 pH	15.93 °C	401.65 µS/cm	1.68 mg/L	10.40 NTU	49.2 mV	42.32 ft	180.00 ml/min
2/5/2024 10:23 AM	10:00	5.84 pH	15.67 °C	397.33 µS/cm	1.21 mg/L	9.27 NTU	66.5 mV	42.36 ft	100.00 ml/min
2/5/2024 10:28 AM	15:00	5.84 pH	15.89 °C	395.88 µS/cm	1.12 mg/L	3.98 NTU	42.6 mV	42.42 ft	100.00 ml/min
2/5/2024 10:33 AM	20:00	5.84 pH	16.20 °C	394.27 µS/cm	0.95 mg/L	2.54 NTU	40.6 mV	42.48 ft	100.00 ml/min
2/5/2024 10:38 AM	25:00	5.85 pH	16.47 °C	395.70 µS/cm	0.82 mg/L	2.42 NTU	56.5 mV	42.52 ft	100.00 ml/min
2/5/2024 10:43 AM	30:00	5.85 pH	16.42 °C	393.63 µS/cm	0.72 mg/L	2.34 NTU	37.8 mV	42.52 ft	100.00 ml/min
2/5/2024 10:48 AM	35:00	5.85 pH	16.31 °C	393.30 µS/cm	0.66 mg/L	1.58 NTU	36.0 mV	42.52 ft	100.00 ml/min
2/5/2024 10:53 AM	40:00	5.86 pH	16.31 °C	386.45 µS/cm	0.60 mg/L	0.72 NTU	34.8 mV	42.52 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-15	

Low-Flow Test Report:

Test Date / Time: 2/6/2024 9:01:20 AM
Project: MCD SAGW 1
Operator Name: P Wahl

Location Name: MCD-DGWC-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.95 ft** **Total Depth: 47.95 ft** **Initial Depth to Water: 38.45 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 39.69 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:

Weather Conditions:
Clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/6/2024 9:01 AM	00:00	5.26 pH	7.84 °C	672.08 µS/cm	7.13 mg/L	3.91 NTU	112.0 mV	38.45 ft	100.00 ml/min
2/6/2024 9:06 AM	05:00	5.08 pH	13.86 °C	684.04 µS/cm	4.93 mg/L	4.76 NTU	78.9 mV	38.55 ft	100.00 ml/min
2/6/2024 9:11 AM	10:00	5.06 pH	14.17 °C	687.20 µS/cm	3.98 mg/L	6.97 NTU	95.2 mV	38.55 ft	100.00 ml/min
2/6/2024 9:16 AM	15:00	5.06 pH	14.40 °C	683.24 µS/cm	3.51 mg/L	5.65 NTU	65.0 mV	38.56 ft	100.00 ml/min
2/6/2024 9:21 AM	20:00	5.07 pH	14.49 °C	680.89 µS/cm	2.97 mg/L	5.49 NTU	60.6 mV	38.56 ft	100.00 ml/min
2/6/2024 9:26 AM	25:00	5.06 pH	14.89 °C	680.64 µS/cm	2.72 mg/L	6.20 NTU	57.9 mV	38.57 ft	100.00 ml/min
2/6/2024 9:31 AM	30:00	5.07 pH	14.50 °C	681.30 µS/cm	2.59 mg/L	9.86 NTU	55.7 mV	38.58 ft	100.00 ml/min
2/6/2024 9:36 AM	35:00	5.06 pH	14.88 °C	680.58 µS/cm	2.45 mg/L	5.55 NTU	56.7 mV	38.59 ft	100.00 ml/min
2/6/2024 9:41 AM	40:00	5.06 pH	14.88 °C	679.80 µS/cm	2.36 mg/L	4.58 NTU	54.0 mV	38.59 ft	100.00 ml/min
2/6/2024 9:46 AM	45:00	5.07 pH	15.12 °C	679.47 µS/cm	2.24 mg/L	5.11 NTU	51.9 mV	38.55 ft	100.00 ml/min
2/6/2024 9:51 AM	50:00	5.07 pH	15.58 °C	674.55 µS/cm	1.57 mg/L	4.05 NTU	65.5 mV	38.55 ft	100.00 ml/min
2/6/2024 9:56 AM	55:00	5.07 pH	15.71 °C	672.06 µS/cm	1.54 mg/L	3.85 NTU	50.1 mV	38.54 ft	100.00 ml/min
2/6/2024 10:01 AM	01:00:00	5.07 pH	15.93 °C	671.02 µS/cm	1.63 mg/L	2.58 NTU	48.5 mV	38.53 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-17	

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Low-Flow Test Report:

Test Date / Time: 2/1/2024 2:13:56 PM
Project: McDonough SAGW01 2024
Operator Name: John Bankhead

Location Name: MCD-DGWC-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.23 ft** **Total Depth: 43.23 ft** **Initial Depth to Water: 26.7 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

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	
2/1/2024 2:13 PM	00:00	4.52 pH	19.97 °C	793.85 µS/cm	4.97 mg/L	2.43 NTU	141.9 mV	26.70 ft	300.00 ml/min
2/1/2024 2:18 PM	05:00	4.93 pH	19.34 °C	819.57 µS/cm	0.48 mg/L	24.60 NTU	94.0 mV	26.91 ft	200.00 ml/min
2/1/2024 2:23 PM	10:00	4.97 pH	19.37 °C	830.75 µS/cm	0.33 mg/L	12.40 NTU	136.0 mV	26.97 ft	200.00 ml/min
2/1/2024 2:28 PM	15:00	4.97 pH	19.50 °C	840.99 µS/cm	0.28 mg/L	6.66 NTU	91.9 mV	26.92 ft	200.00 ml/min
2/1/2024 2:33 PM	20:00	4.97 pH	19.67 °C	848.22 µS/cm	0.25 mg/L	4.81 NTU	105.5 mV	26.95 ft	200.00 ml/min
2/1/2024 2:38 PM	25:00	4.98 pH	19.55 °C	851.50 µS/cm	0.24 mg/L	2.24 NTU	239.4 mV	26.95 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-AP234-EB-3	Equipment blank

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:56:41 AM
Project: Plant McDonough SA (5)
Operator Name: D Bloomfield

Location Name: MCD-DGWC-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.4 ft** **Total Depth: 43.4 ft** **Initial Depth to Water: 24.49 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 13120 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	+/- 5	
2/1/2024 11:56 AM	00:00	4.79 pH	21.36 °C	907.59 µS/cm	4.06 mg/L	4.54 NTU	122.0 mV	24.49 ft	200.00 ml/min
2/1/2024 12:00 PM	04:00	4.56 pH	19.68 °C	1,001.2 µS/cm	0.31 mg/L	29.20 NTU	103.4 mV	24.98 ft	200.00 ml/min
2/1/2024 12:04 PM	08:00	4.69 pH	19.31 °C	908.54 µS/cm	2.46 mg/L	15.80 NTU	87.2 mV	25.21 ft	180.00 ml/min
2/1/2024 12:08 PM	12:00	4.48 pH	18.82 °C	1,117.6 µS/cm	0.30 mg/L	129.00 NTU	90.2 mV	25.16 ft	180.00 ml/min
2/1/2024 12:12 PM	16:00	4.44 pH	18.55 °C	1,237.7 µS/cm	0.26 mg/L	48.80 NTU	97.6 mV	25.16 ft	180.00 ml/min
2/1/2024 12:16 PM	20:00	4.44 pH	18.56 °C	1,244.7 µS/cm	0.20 mg/L	41.80 NTU	115.2 mV	25.16 ft	180.00 ml/min
2/1/2024 12:20 PM	24:00	4.44 pH	18.71 °C	1,250.2 µS/cm	0.17 mg/L	29.90 NTU	127.7 mV	25.16 ft	180.00 ml/min
2/1/2024 12:24 PM	28:00	4.44 pH	18.92 °C	1,252.6 µS/cm	0.16 mg/L	22.10 NTU	142.2 mV	25.16 ft	180.00 ml/min
2/1/2024 12:28 PM	32:00	4.44 pH	19.09 °C	1,233.7 µS/cm	0.14 mg/L	23.20 NTU	161.2 mV	25.16 ft	180.00 ml/min
2/1/2024 12:32 PM	36:00	4.44 pH	19.09 °C	1,233.4 µS/cm	0.14 mg/L	21.60 NTU	175.7 mV	25.16 ft	180.00 ml/min
2/1/2024 12:36 PM	40:00	4.45 pH	19.23 °C	1,236.2 µS/cm	0.13 mg/L	16.90 NTU	195.0 mV	25.16 ft	180.00 ml/min
2/1/2024 12:40 PM	44:00	4.45 pH	19.30 °C	1,243.9 µS/cm	0.13 mg/L	11.50 NTU	215.3 mV	25.16 ft	180.00 ml/min
2/1/2024 12:44 PM	48:00	4.47 pH	19.71 °C	1,227.0 µS/cm	0.13 mg/L	8.62 NTU	224.5 mV	25.16 ft	180.00 ml/min
2/1/2024 12:48 PM	52:00	4.47 pH	19.76 °C	1,223.8 µS/cm	0.13 mg/L	8.91 NTU	231.4 mV	25.16 ft	180.00 ml/min
2/1/2024 12:52 PM	56:00	4.48 pH	19.88 °C	1,219.7 µS/cm	0.12 mg/L	6.39 NTU	234.6 mV	25.16 ft	180.00 ml/min

2/1/2024 12:56 PM	01:00:00	4.48 pH	19.53 °C	1,212.6 µS/cm	0.12 mg/L	5.81 NTU	241.5 mV	25.16 ft	180.00 ml/min
2/1/2024 1:00 PM	01:04:00	4.49 pH	19.50 °C	1,216.8 µS/cm	0.12 mg/L	4.09 NTU	257.2 mV	25.16 ft	180.00 ml/min
2/1/2024 1:04 PM	01:08:00	4.48 pH	19.53 °C	1,210.9 µS/cm	0.11 mg/L	3.60 NTU	272.6 mV	25.16 ft	180.00 ml/min
2/1/2024 1:10 PM	01:14:00	4.49 pH	19.29 °C	1,219.7 µS/cm	0.11 mg/L	2.52 NTU	263.7 mV	25.16 ft	180.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-20	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 11:22:50 AM
Project: MCD SAGW 1 (5)
Operator Name: P Wahl

Location Name: MCD-DGWC-21 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.55 ft** **Total Depth: 72.55 ft** **Initial Depth to Water: 19.63 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
1/31/2024 11:22 AM	00:00	6.44 pH	14.61 °C	601.14 µS/cm	6.55 mg/L	1.32 NTU	153.8 mV	19.63 ft	150.00 ml/min
1/31/2024 11:27 AM	05:00	5.69 pH	16.31 °C	661.24 µS/cm	0.73 mg/L	1.18 NTU	70.3 mV	19.89 ft	150.00 ml/min
1/31/2024 11:32 AM	10:00	5.68 pH	17.12 °C	663.07 µS/cm	0.35 mg/L	0.80 NTU	145.9 mV	19.91 ft	150.00 ml/min
1/31/2024 11:37 AM	15:00	5.68 pH	17.36 °C	633.34 µS/cm	0.25 mg/L	0.75 NTU	116.0 mV	19.92 ft	150.00 ml/min
1/31/2024 11:42 AM	20:00	5.66 pH	17.16 °C	677.75 µS/cm	0.22 mg/L	1.47 NTU	132.8 mV	19.94 ft	150.00 ml/min
1/31/2024 11:47 AM	25:00	5.69 pH	17.32 °C	646.52 µS/cm	0.19 mg/L	1.07 NTU	138.3 mV	19.94 ft	150.00 ml/min
1/31/2024 11:52 AM	30:00	5.69 pH	17.40 °C	634.94 µS/cm	0.18 mg/L	1.37 NTU	259.8 mV	19.94 ft	150.00 ml/min
1/31/2024 11:57 AM	35:00	5.66 pH	17.40 °C	685.32 µS/cm	0.17 mg/L	0.87 NTU	143.7 mV	19.95 ft	150.00 ml/min
1/31/2024 12:02 PM	40:00	5.66 pH	17.54 °C	669.75 µS/cm	0.15 mg/L	1.29 NTU	140.2 mV	19.95 ft	150.00 ml/min
1/31/2024 12:07 PM	45:00	5.67 pH	17.59 °C	643.66 µS/cm	0.15 mg/L	0.88 NTU	139.7 mV	19.95 ft	150.00 ml/min
1/31/2024 12:12 PM	50:00	5.67 pH	17.71 °C	667.32 µS/cm	0.14 mg/L	1.05 NTU	137.2 mV	19.95 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-21	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 1:37:48 PM
Project: MCD SAGW 1 (6)
Operator Name: P Wahl

Location Name: MCD-DGWC-22 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.45 ft** **Total Depth: 63.45 ft** **Initial Depth to Water: 22.82 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 4750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
1/31/2024 1:37 PM	00:00	5.86 pH	18.12 °C	442.42 µS/cm	5.15 mg/L	2.16 NTU	1.8 mV	22.82 ft	190.00 ml/min
1/31/2024 1:42 PM	05:00	5.68 pH	17.97 °C	601.34 µS/cm	0.50 mg/L	0.32 NTU	16.6 mV	23.03 ft	190.00 ml/min
1/31/2024 1:47 PM	10:00	5.73 pH	17.75 °C	603.95 µS/cm	0.36 mg/L	0.27 NTU	17.3 mV	23.03 ft	190.00 ml/min
1/31/2024 1:52 PM	15:00	5.68 pH	17.76 °C	594.77 µS/cm	0.32 mg/L	0.82 NTU	19.9 mV	23.04 ft	190.00 ml/min
1/31/2024 1:57 PM	20:00	5.70 pH	17.70 °C	595.74 µS/cm	0.38 mg/L	0.70 NTU	33.1 mV	23.04 ft	190.00 ml/min
1/31/2024 2:02 PM	25:00	5.71 pH	17.67 °C	599.32 µS/cm	0.31 mg/L	1.21 NTU	23.0 mV	23.04 ft	190.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-22	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 3:21:54 PM
Project: MCD SAGW 1 (7)
Operator Name: P Wahl

Location Name: MCD-DGWC-23 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.26 ft** **Total Depth: 63.26 ft** **Initial Depth to Water: 20.59 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 58.26 ft** **Estimated Total Volume Pumped: 3250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 1.94 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
1/31/2024 3:22 PM	00:00	7.20 pH	16.56 °C	666.83 µS/cm	7.31 mg/L	0.36 NTU	69.9 mV	20.59 ft	130.00 ml/min
1/31/2024 3:27 PM	05:00	6.01 pH	16.33 °C	717.13 µS/cm	0.89 mg/L	1.73 NTU	-108.8 mV	21.98 ft	130.00 ml/min
1/31/2024 3:32 PM	10:00	5.97 pH	16.16 °C	697.23 µS/cm	0.47 mg/L	1.49 NTU	-105.5 mV	22.16 ft	130.00 ml/min
1/31/2024 3:37 PM	15:00	5.94 pH	16.20 °C	686.33 µS/cm	0.39 mg/L	0.55 NTU	12.9 mV	22.46 ft	130.00 ml/min
1/31/2024 3:42 PM	20:00	5.94 pH	15.93 °C	685.44 µS/cm	0.42 mg/L	0.39 NTU	33.5 mV	22.50 ft	130.00 ml/min
1/31/2024 3:47 PM	25:00	5.95 pH	15.94 °C	689.81 µS/cm	0.43 mg/L	0.71 NTU	63.3 mV	22.53 ft	130.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-23	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 2:25:17 PM
Project: McDonough SAGW01 2024
Operator Name: Mark Mann

Location Name: MCD-DGWC-42 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.49 ft** **Total Depth: 52.49 ft** **Initial Depth to Water: 30.77 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 44.19 ft** **Estimated Total Volume Pumped: 17900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0.76 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

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	
1/30/2024 2:25 PM	00:00	5.63 pH	17.82 °C	875.84 µS/cm	5.56 mg/L	0.60 NTU	85.0 mV	30.77 ft	130.00 ml/min
1/30/2024 2:30 PM	05:00	5.23 pH	18.57 °C	864.87 µS/cm	1.60 mg/L	6.77 NTU	60.2 mV	31.36 ft	250.00 ml/min
1/30/2024 2:35 PM	10:00	5.22 pH	18.88 °C	722.36 µS/cm	2.06 mg/L	4.67 NTU	87.7 mV	31.97 ft	250.00 ml/min
1/30/2024 2:40 PM	15:00	5.23 pH	18.83 °C	783.12 µS/cm	1.84 mg/L	2.74 NTU	48.4 mV	31.96 ft	250.00 ml/min
1/30/2024 2:45 PM	20:00	5.21 pH	18.75 °C	746.52 µS/cm	1.91 mg/L	2.05 NTU	47.0 mV	32.03 ft	250.00 ml/min
1/30/2024 2:50 PM	25:00	5.19 pH	18.73 °C	735.20 µS/cm	1.90 mg/L	1.50 NTU	81.1 mV	32.09 ft	250.00 ml/min
1/30/2024 2:55 PM	30:00	5.19 pH	18.73 °C	730.07 µS/cm	1.57 mg/L	0.60 NTU	78.0 mV	32.10 ft	250.00 ml/min
1/30/2024 3:00 PM	35:00	5.18 pH	18.70 °C	731.90 µS/cm	1.45 mg/L	0.48 NTU	39.3 mV	32.14 ft	250.00 ml/min
1/30/2024 3:05 PM	40:00	5.18 pH	18.70 °C	745.98 µS/cm	1.31 mg/L	0.41 NTU	77.1 mV	32.18 ft	250.00 ml/min
1/30/2024 3:10 PM	45:00	5.17 pH	18.83 °C	762.32 µS/cm	1.75 mg/L	0.54 NTU	72.3 mV	32.16 ft	250.00 ml/min
1/30/2024 3:15 PM	50:00	5.17 pH	19.05 °C	721.15 µS/cm	1.89 mg/L	0.33 NTU	74.6 mV	32.13 ft	250.00 ml/min
1/30/2024 3:20 PM	55:00	5.17 pH	18.97 °C	677.77 µS/cm	1.67 mg/L	0.51 NTU	74.8 mV	32.11 ft	250.00 ml/min
1/30/2024 3:25 PM	01:00:00	5.16 pH	18.92 °C	669.19 µS/cm	1.49 mg/L	0.36 NTU	72.2 mV	31.88 ft	175.00 ml/min

1/30/2024 3:30 PM	01:05:00	5.18 pH	18.70 °C	628.97 µS/cm	1.63 mg/L	0.42 NTU	70.6 mV	31.75 ft	175.00 ml/min
1/30/2024 3:35 PM	01:10:00	5.16 pH	19.12 °C	669.39 µS/cm	1.29 mg/L	0.54 NTU	71.1 mV	31.65 ft	175.00 ml/min
1/30/2024 3:40 PM	01:15:00	5.18 pH	19.05 °C	659.79 µS/cm	1.18 mg/L	0.40 NTU	36.1 mV	31.55 ft	175.00 ml/min
1/30/2024 3:45 PM	01:20:00	5.18 pH	19.15 °C	683.57 µS/cm	1.10 mg/L	0.39 NTU	39.6 mV	31.53 ft	175.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWC-42	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 9:15:51 AM
Project: McDonough SAGW01 2024
Operator Name: John Bankhead

Location Name: MCD-DGWC-47 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 21.93 ft** **Total Depth: 31.93 ft** **Initial Depth to Water: 17.48 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 13300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 2.53 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/5/2024 9:15 AM	00:00	3.14 pH	9.52 °C	377.84 µS/cm	8.71 mg/L	49.00 NTU	305.4 mV	17.48 ft	250.00 ml/min
2/5/2024 9:20 AM	05:00	3.91 pH	14.85 °C	340.64 µS/cm	0.27 mg/L	44.10 NTU	352.7 mV	19.20 ft	200.00 ml/min
2/5/2024 9:25 AM	10:00	3.95 pH	15.12 °C	333.22 µS/cm	0.22 mg/L	30.20 NTU	391.3 mV	19.53 ft	150.00 ml/min
2/5/2024 9:30 AM	15:00	3.96 pH	15.07 °C	340.18 µS/cm	0.22 mg/L	27.90 NTU	335.2 mV	19.63 ft	150.00 ml/min
2/5/2024 9:35 AM	20:00	3.97 pH	15.02 °C	335.30 µS/cm	0.19 mg/L	20.20 NTU	328.9 mV	19.72 ft	150.00 ml/min
2/5/2024 9:40 AM	25:00	4.00 pH	15.08 °C	335.29 µS/cm	0.17 mg/L	15.50 NTU	324.7 mV	19.78 ft	160.00 ml/min
2/5/2024 9:45 AM	30:00	4.01 pH	15.03 °C	336.20 µS/cm	0.18 mg/L	13.20 NTU	322.5 mV	19.80 ft	160.00 ml/min
2/5/2024 9:50 AM	35:00	4.01 pH	15.26 °C	338.47 µS/cm	0.16 mg/L	10.20 NTU	305.1 mV	19.91 ft	160.00 ml/min
2/5/2024 9:55 AM	40:00	4.04 pH	15.52 °C	335.60 µS/cm	0.15 mg/L	8.13 NTU	302.0 mV	19.95 ft	160.00 ml/min
2/5/2024 10:00 AM	45:00	4.06 pH	15.54 °C	336.58 µS/cm	0.15 mg/L	7.59 NTU	293.8 mV	19.96 ft	160.00 ml/min
2/5/2024 10:05 AM	50:00	4.07 pH	15.66 °C	336.76 µS/cm	0.14 mg/L	5.50 NTU	281.6 mV	19.96 ft	160.00 ml/min
2/5/2024 10:10 AM	55:00	4.09 pH	15.56 °C	331.44 µS/cm	0.13 mg/L	4.45 NTU	276.3 mV	19.97 ft	160.00 ml/min
2/5/2024 10:15 AM	01:00:00	4.08 pH	15.65 °C	328.05 µS/cm	0.12 mg/L	3.94 NTU	350.2 mV	19.97 ft	160.00 ml/min

2/5/2024 10:20 AM	01:05:00	4.10 pH	15.61 °C	332.00 µS/cm	0.12 mg/L	3.86 NTU	278.5 mV	19.97 ft	160.00 ml/min
2/5/2024 10:25 AM	01:10:00	4.10 pH	15.91 °C	333.25 µS/cm	0.12 mg/L	3.11 NTU	266.0 mV	19.97 ft	160.00 ml/min
2/5/2024 10:30 AM	01:15:00	4.10 pH	16.01 °C	334.16 µS/cm	0.12 mg/L	3.06 NTU	270.2 mV	19.97 ft	160.00 ml/min
2/5/2024 10:35 AM	01:20:00	4.11 pH	16.01 °C	329.04 µS/cm	0.10 mg/L	2.16 NTU	273.2 mV	20.01 ft	160.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 12:00:12 PM
Project: McDonough SAGW01 2024
Operator Name: John Bankhead

Location Name: MCD-DGWC-48 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.49 ft** **Total Depth: 33.49 ft** **Initial Depth to Water: 15.36 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 11300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.99 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/5/2024 12:00 PM	00:00	4.34 pH	14.30 °C	641.43 µS/cm	0.94 mg/L	27.90 NTU	224.0 mV	15.36 ft	250.00 ml/min
2/5/2024 12:05 PM	05:00	4.30 pH	17.04 °C	627.37 µS/cm	0.20 mg/L	25.60 NTU	226.6 mV	16.19 ft	250.00 ml/min
2/5/2024 12:10 PM	10:00	4.35 pH	17.09 °C	625.05 µS/cm	0.15 mg/L	14.80 NTU	230.9 mV	16.21 ft	200.00 ml/min
2/5/2024 12:15 PM	15:00	4.31 pH	17.30 °C	622.26 µS/cm	0.12 mg/L	9.38 NTU	227.9 mV	16.24 ft	200.00 ml/min
2/5/2024 12:20 PM	20:00	4.32 pH	17.17 °C	618.25 µS/cm	0.10 mg/L	7.05 NTU	224.4 mV	16.29 ft	200.00 ml/min
2/5/2024 12:25 PM	25:00	4.32 pH	17.09 °C	622.98 µS/cm	0.10 mg/L	5.87 NTU	219.9 mV	16.30 ft	200.00 ml/min
2/5/2024 12:30 PM	30:00	4.30 pH	17.29 °C	623.51 µS/cm	0.09 mg/L	4.12 NTU	294.8 mV	16.32 ft	200.00 ml/min
2/5/2024 12:35 PM	35:00	4.32 pH	17.49 °C	619.73 µS/cm	0.08 mg/L	3.52 NTU	218.1 mV	16.34 ft	200.00 ml/min
2/5/2024 12:40 PM	40:00	4.32 pH	17.44 °C	618.17 µS/cm	0.08 mg/L	3.77 NTU	211.3 mV	16.36 ft	200.00 ml/min
2/5/2024 12:45 PM	45:00	4.33 pH	17.54 °C	614.10 µS/cm	0.07 mg/L	2.93 NTU	218.9 mV	16.32 ft	180.00 ml/min
2/5/2024 12:50 PM	50:00	4.31 pH	17.84 °C	610.73 µS/cm	0.07 mg/L	3.07 NTU	293.4 mV	16.31 ft	180.00 ml/min
2/5/2024 12:55 PM	55:00	4.33 pH	17.94 °C	612.64 µS/cm	0.07 mg/L	2.52 NTU	212.4 mV	16.35 ft	180.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/5/2024 2:51:25 PM
Project: Plant McDonough SA (11)
Operator Name: D Bloomfield

Location Name: MCD-B-56 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.9 ft** **Total Depth: 47.9 ft** **Initial Depth to Water: 30.06 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 20800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.59 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	+/- 5	
2/5/2024 2:51 PM	00:00	4.75 pH	17.85 °C	569.89 µS/cm	2.56 mg/L	41.30 NTU	117.1 mV	30.55 ft	200.00 ml/min
2/5/2024 2:55 PM	04:00	4.74 pH	17.79 °C	571.09 µS/cm	2.37 mg/L	24.00 NTU	90.7 mV	30.65 ft	200.00 ml/min
2/5/2024 2:59 PM	08:00	4.74 pH	17.77 °C	569.55 µS/cm	2.16 mg/L	26.90 NTU	82.3 mV	30.65 ft	200.00 ml/min
2/5/2024 3:03 PM	12:00	4.74 pH	17.75 °C	571.17 µS/cm	2.38 mg/L	25.20 NTU	78.7 mV	30.65 ft	200.00 ml/min
2/5/2024 3:07 PM	16:00	4.73 pH	17.80 °C	572.13 µS/cm	2.29 mg/L	39.90 NTU	77.4 mV	30.65 ft	200.00 ml/min
2/5/2024 3:11 PM	20:00	4.74 pH	17.86 °C	571.46 µS/cm	2.45 mg/L	25.50 NTU	76.0 mV	30.65 ft	200.00 ml/min
2/5/2024 3:15 PM	24:00	4.73 pH	17.99 °C	570.11 µS/cm	2.35 mg/L	19.10 NTU	74.0 mV	30.65 ft	200.00 ml/min
2/5/2024 3:19 PM	28:00	4.72 pH	17.91 °C	570.95 µS/cm	2.29 mg/L	22.30 NTU	72.7 mV	30.65 ft	200.00 ml/min
2/5/2024 3:23 PM	32:00	4.72 pH	17.81 °C	568.96 µS/cm	2.29 mg/L	18.50 NTU	70.9 mV	30.65 ft	200.00 ml/min
2/5/2024 3:27 PM	36:00	4.73 pH	17.84 °C	569.69 µS/cm	2.17 mg/L	16.70 NTU	69.6 mV	30.65 ft	200.00 ml/min
2/5/2024 3:31 PM	40:00	4.72 pH	17.76 °C	569.18 µS/cm	2.23 mg/L	16.30 NTU	69.0 mV	30.65 ft	200.00 ml/min
2/5/2024 3:35 PM	44:00	4.72 pH	17.71 °C	568.76 µS/cm	2.05 mg/L	14.30 NTU	68.5 mV	30.65 ft	200.00 ml/min
2/5/2024 3:39 PM	48:00	4.72 pH	17.65 °C	571.31 µS/cm	2.02 mg/L	13.50 NTU	67.3 mV	30.65 ft	200.00 ml/min
2/5/2024 3:43 PM	52:00	4.71 pH	17.65 °C	569.02 µS/cm	2.05 mg/L	11.70 NTU	67.1 mV	30.65 ft	200.00 ml/min
2/5/2024 3:47 PM	56:00	4.72 pH	17.57 °C	571.82 µS/cm	1.99 mg/L	12.80 NTU	66.1 mV	30.65 ft	200.00 ml/min

2/5/2024 3:51 PM	01:00:00	4.72 pH	17.46 °C	575.02 µS/cm	1.88 mg/L	11.00 NTU	65.5 mV	30.65 ft	200.00 ml/min
2/5/2024 3:55 PM	01:04:00	4.72 pH	17.37 °C	576.27 µS/cm	1.71 mg/L	8.88 NTU	64.6 mV	30.65 ft	200.00 ml/min
2/5/2024 3:59 PM	01:08:00	4.72 pH	17.35 °C	577.00 µS/cm	1.70 mg/L	9.00 NTU	63.9 mV	30.65 ft	200.00 ml/min
2/5/2024 4:03 PM	01:12:00	4.70 pH	17.35 °C	577.59 µS/cm	1.70 mg/L	8.97 NTU	62.9 mV	30.65 ft	200.00 ml/min
2/5/2024 4:07 PM	01:16:00	4.70 pH	17.33 °C	575.13 µS/cm	1.48 mg/L	8.93 NTU	62.1 mV	30.65 ft	200.00 ml/min
2/5/2024 4:11 PM	01:20:00	4.70 pH	17.39 °C	575.55 µS/cm	1.54 mg/L	8.82 NTU	61.5 mV	30.65 ft	200.00 ml/min
2/5/2024 4:15 PM	01:24:00	4.70 pH	17.42 °C	577.19 µS/cm	1.53 mg/L	7.31 NTU	61.3 mV	30.65 ft	200.00 ml/min
2/5/2024 4:19 PM	01:28:00	4.70 pH	17.39 °C	572.73 µS/cm	1.51 mg/L	6.25 NTU	60.9 mV	30.65 ft	200.00 ml/min
2/5/2024 4:23 PM	01:32:00	4.70 pH	17.48 °C	572.70 µS/cm	1.50 mg/L	5.55 NTU	60.6 mV	30.65 ft	200.00 ml/min
2/5/2024 4:27 PM	01:36:00	4.69 pH	17.49 °C	573.84 µS/cm	1.37 mg/L	5.21 NTU	59.9 mV	30.65 ft	200.00 ml/min
2/5/2024 4:31 PM	01:40:00	4.69 pH	17.44 °C	572.29 µS/cm	1.42 mg/L	5.05 NTU	59.4 mV	30.65 ft	200.00 ml/min
2/5/2024 4:36 PM	01:45:00	4.71 pH	17.31 °C	573.79 µS/cm	1.40 mg/L	4.90 NTU	58.6 mV	30.65 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-56	

Low-Flow Test Report:

Test Date / Time: 2/1/2024 12:44:49 PM
Project: Plant McDonough (7)
Operator Name: Daniel Howard

Location Name: MCD-B-63 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.15 ft** **Total Depth: 46.15 ft** **Initial Depth to Water: 29.95 ft**	**Pump Type: Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-63 sample time 1314. Also collected field dup MCD-AP234-FD-4. Time 1319 Fe+2 = >7 mg/L. Field dup Fe+2 = >7 mg/L.

Weather Conditions:
Clear, Temp 50 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2024 12:44 PM	00:00	5.87 pH	16.51 °C	325.32 µS/cm	2.09 mg/L	21.50 NTU	-2.5 mV	29.95 ft	150.00 ml/min
2/1/2024 12:49 PM	05:00	5.84 pH	18.11 °C	308.03 µS/cm	0.75 mg/L	14.00 NTU	-14.8 mV	30.41 ft	150.00 ml/min
2/1/2024 12:54 PM	10:00	5.85 pH	18.16 °C	307.57 µS/cm	0.46 mg/L	10.40 NTU	-52.7 mV	30.44 ft	150.00 ml/min
2/1/2024 12:59 PM	15:00	5.85 pH	18.11 °C	304.79 µS/cm	0.39 mg/L	7.32 NTU	-29.9 mV	30.47 ft	150.00 ml/min
2/1/2024 1:04 PM	20:00	5.85 pH	18.27 °C	307.87 µS/cm	0.39 mg/L	4.88 NTU	-31.7 mV	30.48 ft	150.00 ml/min
2/1/2024 1:09 PM	25:00	5.86 pH	18.34 °C	306.10 µS/cm	0.35 mg/L	4.03 NTU	-69.0 mV	30.50 ft	150.00 ml/min
2/1/2024 1:14 PM	30:00	5.84 pH	18.35 °C	305.13 µS/cm	0.33 mg/L	3.87 NTU	-31.5 mV	30.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-63	

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:52:48 AM
Project: MCD SAGW 1 (8)
Operator Name: P Wahl

Location Name: MCD-B-66 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.99 ft** **Total Depth: 57.99 ft** **Initial Depth to Water: 19.13 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 5950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 4.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/1/2024 9:52 AM	00:00	6.26 pH	7.60 °C	831.24 µS/cm	9.91 mg/L	9.98 NTU	147.0 mV	19.13 ft	130.00 ml/min
2/1/2024 9:57 AM	05:00	6.03 pH	13.48 °C	717.46 µS/cm	0.64 mg/L	5.07 NTU	115.5 mV	20.56 ft	130.00 ml/min
2/1/2024 10:02 AM	10:00	6.10 pH	14.46 °C	708.95 µS/cm	1.06 mg/L	2.82 NTU	45.6 mV	21.29 ft	130.00 ml/min
2/1/2024 10:07 AM	15:00	6.14 pH	14.54 °C	700.37 µS/cm	1.79 mg/L	1.78 NTU	65.7 mV	21.69 ft	100.00 ml/min
2/1/2024 10:12 AM	20:00	6.16 pH	14.40 °C	704.42 µS/cm	1.58 mg/L	1.47 NTU	33.5 mV	21.99 ft	100.00 ml/min
2/1/2024 10:17 AM	25:00	6.17 pH	14.73 °C	704.05 µS/cm	1.40 mg/L	1.64 NTU	30.4 mV	22.25 ft	100.00 ml/min
2/1/2024 10:22 AM	30:00	6.15 pH	14.88 °C	703.43 µS/cm	1.36 mg/L	1.21 NTU	28.5 mV	22.47 ft	100.00 ml/min
2/1/2024 10:27 AM	35:00	6.16 pH	15.71 °C	695.78 µS/cm	1.38 mg/L	0.73 NTU	27.5 mV	22.67 ft	100.00 ml/min
2/1/2024 10:32 AM	40:00	6.18 pH	16.04 °C	690.46 µS/cm	1.31 mg/L	1.18 NTU	27.5 mV	22.84 ft	100.00 ml/min
2/1/2024 10:37 AM	45:00	6.17 pH	16.30 °C	686.37 µS/cm	1.21 mg/L	0.84 NTU	27.5 mV	22.98 ft	100.00 ml/min
2/1/2024 10:42 AM	50:00	6.16 pH	16.39 °C	685.08 µS/cm	1.15 mg/L	1.07 NTU	28.2 mV	23.12 ft	100.00 ml/min
2/1/2024 10:47 AM	55:00	6.17 pH	16.70 °C	687.21 µS/cm	1.09 mg/L	0.88 NTU	28.4 mV	23.25 ft	100.00 ml/min

Samples

Sample ID:	Description:

MCD-B-66	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 1:29:01 PM
Project: Plant McDonough (11)
Operator Name: Daniel Howard

Location Name: MCD-B-77 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 30.46 ft**	**Pump Type: Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 1.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-77 sample time 1359. Time 1404 Fe+2 = 7.0 mg/L

Weather Conditions:
Overcast, temp 54 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/5/2024 1:29 PM	00:00	6.56 pH	18.53 °C	378.14 µS/cm	0.36 mg/L	3.85 NTU	-77.4 mV	30.46 ft	150.00 ml/min
2/5/2024 1:34 PM	05:00	6.56 pH	18.25 °C	378.11 µS/cm	0.32 mg/L	4.10 NTU	-109.5 mV	31.66 ft	150.00 ml/min
2/5/2024 1:39 PM	10:00	6.55 pH	18.23 °C	378.21 µS/cm	0.27 mg/L	2.88 NTU	-78.8 mV	31.72 ft	150.00 ml/min
2/5/2024 1:44 PM	15:00	6.55 pH	18.29 °C	376.26 µS/cm	0.24 mg/L	3.09 NTU	-76.6 mV	31.73 ft	150.00 ml/min
2/5/2024 1:49 PM	20:00	6.54 pH	18.24 °C	374.12 µS/cm	0.23 mg/L	3.61 NTU	-73.2 mV	31.75 ft	150.00 ml/min
2/5/2024 1:54 PM	25:00	6.54 pH	18.25 °C	372.68 µS/cm	0.21 mg/L	2.79 NTU	-70.9 mV	31.76 ft	150.00 ml/min
2/5/2024 1:59 PM	30:00	6.53 pH	18.37 °C	371.19 µS/cm	0.19 mg/L	2.45 NTU	-69.3 mV	31.78 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-77	

Low-Flow Test Report:

Test Date / Time: 2/1/2024 11:52:47 AM
Project: MCD SAGW 1 (9)
Operator Name: P Wahl

Location Name: MCD-B-82 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.65 ft** **Total Depth: 47.65 ft** **Initial Depth to Water: 15.96 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 3250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 1.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/1/2024 11:52 AM	00:00	5.68 pH	23.02 °C	746.01 µS/cm	3.36 mg/L	3.37 NTU	107.9 mV	15.96 ft	130.00 ml/min
2/1/2024 11:57 AM	05:00	5.64 pH	19.17 °C	817.89 µS/cm	0.26 mg/L	1.26 NTU	48.8 mV	17.04 ft	130.00 ml/min
2/1/2024 12:02 PM	10:00	5.66 pH	18.79 °C	819.93 µS/cm	0.30 mg/L	0.92 NTU	33.5 mV	17.06 ft	130.00 ml/min
2/1/2024 12:07 PM	15:00	5.64 pH	18.70 °C	820.26 µS/cm	0.30 mg/L	0.68 NTU	29.5 mV	17.09 ft	130.00 ml/min
2/1/2024 12:12 PM	20:00	5.62 pH	18.83 °C	810.91 µS/cm	0.30 mg/L	1.35 NTU	27.8 mV	17.13 ft	130.00 ml/min
2/1/2024 12:17 PM	25:00	5.61 pH	18.75 °C	806.70 µS/cm	0.29 mg/L	1.35 NTU	47.5 mV	17.16 ft	130.00 ml/min

Samples

Sample ID:	Description:
MCD-B-82	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 3:21:38 PM
Project: Plant McDonough (8)
Operator Name: Daniel Howard

Location Name: MCD-B-83 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.9 ft** **Total Depth: 48.9 ft** **Initial Depth to Water: 31.57 ft**	**Pump Type: Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 43.9 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-83 sample time 1551. Time 1556 Fe+2 = 0 mg/L

Weather Conditions:
Clear, temp 58 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2024 3:21 PM	00:00	5.58 pH	20.06 °C	324.01 µS/cm	1.02 mg/L	9.21 NTU	62.1 mV	31.57 ft	200.00 ml/min
2/1/2024 3:26 PM	05:00	5.63 pH	19.28 °C	341.19 µS/cm	1.11 mg/L	6.75 NTU	87.4 mV	31.67 ft	200.00 ml/min
2/1/2024 3:31 PM	10:00	5.63 pH	19.08 °C	336.29 µS/cm	0.95 mg/L	4.65 NTU	94.3 mV	31.67 ft	200.00 ml/min
2/1/2024 3:36 PM	15:00	5.63 pH	19.02 °C	331.82 µS/cm	0.89 mg/L	3.42 NTU	93.1 mV	31.66 ft	200.00 ml/min
2/1/2024 3:41 PM	20:00	5.64 pH	19.03 °C	329.60 µS/cm	0.81 mg/L	3.07 NTU	95.5 mV	31.66 ft	200.00 ml/min
2/1/2024 3:46 PM	25:00	5.65 pH	19.06 °C	330.41 µS/cm	0.79 mg/L	2.20 NTU	151.7 mV	31.66 ft	200.00 ml/min
2/1/2024 3:51 PM	30:00	5.65 pH	19.00 °C	329.30 µS/cm	0.77 mg/L	1.63 NTU	104.4 mV	31.66 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-83	

Low-Flow Test Report:

Test Date / Time: 2/5/2024 9:38:07 AM
Project: Plant McDonough (10)
Operator Name: Daniel Howard

Location Name: MCD-B-88 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 65.06 ft** **Total Depth: 75.06 ft** **Initial Depth to Water: 39.54 ft**	**Pump Type: Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 70 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-88 sample time 1008.

Weather Conditions:
Overcast, temp 47 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/5/2024 9:38 AM	00:00	5.50 pH	15.30 °C	1,074.3 µS/cm	1.18 mg/L	20.80 NTU	189.0 mV	39.54 ft	200.00 ml/min
2/5/2024 9:43 AM	05:00	5.49 pH	16.26 °C	986.81 µS/cm	1.27 mg/L	10.50 NTU	168.5 mV	39.64 ft	200.00 ml/min
2/5/2024 9:48 AM	10:00	5.48 pH	16.33 °C	1,002.7 µS/cm	0.85 mg/L	7.14 NTU	199.9 mV	39.64 ft	200.00 ml/min
2/5/2024 9:53 AM	15:00	5.48 pH	16.33 °C	995.45 µS/cm	0.46 mg/L	4.45 NTU	145.3 mV	39.64 ft	200.00 ml/min
2/5/2024 9:58 AM	20:00	5.48 pH	16.33 °C	999.07 µS/cm	0.30 mg/L	2.42 NTU	177.3 mV	39.64 ft	200.00 ml/min
2/5/2024 10:03 AM	25:00	5.48 pH	16.23 °C	1,005.7 µS/cm	0.23 mg/L	2.04 NTU	131.5 mV	39.64 ft	200.00 ml/min
2/5/2024 10:08 AM	30:00	5.48 pH	16.37 °C	1,006.3 µS/cm	0.19 mg/L	1.79 NTU	125.6 mV	39.64 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-88	

Low-Flow Test Report:

Test Date / Time: 1/30/2024 10:22:10 AM
Project: MCD SAGW 1
Operator Name: P Wahl

Location Name: MCD-B-92 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.6 ft** **Total Depth: 24.6 ft** **Initial Depth to Water: 6.71 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 3253.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
1/30/2024 10:22 AM	00:00	4.60 pH	20.03 °C	1,135.5 µS/cm	4.84 mg/L	4.48 NTU	248.4 mV	6.71 ft	100.00 ml/min
1/30/2024 10:27 AM	05:00	4.63 pH	17.85 °C	1,129.0 µS/cm	0.46 mg/L	0.80 NTU	407.9 mV	6.79 ft	100.00 ml/min
1/30/2024 10:32 AM	10:00	4.63 pH	17.84 °C	1,129.6 µS/cm	0.33 mg/L	0.97 NTU	410.4 mV	6.80 ft	100.00 ml/min
1/30/2024 10:34 AM	12:32	4.63 pH	17.90 °C	1,134.1 µS/cm	0.30 mg/L	1.21 NTU	418.4 mV	6.80 ft	100.00 ml/min
1/30/2024 10:39 AM	17:32	4.64 pH	18.16 °C	1,131.4 µS/cm	0.24 mg/L	0.39 NTU	419.0 mV	6.81 ft	100.00 ml/min
1/30/2024 10:44 AM	22:32	4.63 pH	18.30 °C	1,125.6 µS/cm	0.21 mg/L	0.35 NTU	532.2 mV	6.82 ft	100.00 ml/min
1/30/2024 10:49 AM	27:32	4.64 pH	17.94 °C	1,132.8 µS/cm	0.20 mg/L	0.37 NTU	415.6 mV	6.82 ft	100.00 ml/min
1/30/2024 10:54 AM	32:32	4.64 pH	18.27 °C	1,129.1 µS/cm	0.19 mg/L	0.26 NTU	410.1 mV	6.82 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-92	

Low-Flow Test Report:

Test Date / Time: 1/30/2024 12:04:07 PM
Project: MCD SAGW 1 (2)
Operator Name: P Wahl

Location Name: MCD-B-93 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19.3 ft** **Total Depth: 29.3 ft** **Initial Depth to Water: 8.6 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 6145 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.42 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
1/30/2024 12:04 PM	00:00	4.49 pH	23.43 °C	974.79 µS/cm	4.64 mg/L	0.57 NTU	347.9 mV	8.60 ft	150.00 ml/min
1/30/2024 12:05 PM	00:58	4.67 pH	21.73 °C	1,006.9 µS/cm	1.69 mg/L	0.57 NTU	368.8 mV	8.89 ft	150.00 ml/min
1/30/2024 12:10 PM	05:58	4.72 pH	19.76 °C	1,026.3 µS/cm	2.20 mg/L	1.17 NTU	386.0 mV	8.93 ft	150.00 ml/min
1/30/2024 12:15 PM	10:58	4.72 pH	19.77 °C	1,024.8 µS/cm	2.10 mg/L	1.16 NTU	519.1 mV	8.95 ft	150.00 ml/min
1/30/2024 12:20 PM	15:58	4.72 pH	19.77 °C	1,021.0 µS/cm	1.93 mg/L	0.75 NTU	391.9 mV	8.97 ft	150.00 ml/min
1/30/2024 12:25 PM	20:58	4.72 pH	19.81 °C	1,024.9 µS/cm	1.79 mg/L	0.91 NTU	393.1 mV	8.98 ft	150.00 ml/min
1/30/2024 12:30 PM	25:58	4.72 pH	19.79 °C	1,032.7 µS/cm	1.59 mg/L	0.66 NTU	521.3 mV	9.00 ft	150.00 ml/min
1/30/2024 12:35 PM	30:58	4.72 pH	19.84 °C	1,042.9 µS/cm	1.45 mg/L	0.60 NTU	405.0 mV	9.01 ft	150.00 ml/min
1/30/2024 12:40 PM	35:58	4.73 pH	19.95 °C	1,046.6 µS/cm	1.36 mg/L	0.70 NTU	403.8 mV	9.01 ft	150.00 ml/min
1/30/2024 12:45 PM	40:58	4.72 pH	19.87 °C	1,053.7 µS/cm	1.26 mg/L	1.15 NTU	402.2 mV	9.02 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-93	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 9:27:08 AM
Project: MCD SAGW 1 (4)
Operator Name: P Wahl

Location Name: MCD-B-97 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.71 ft** **Total Depth: 30.71 ft** **Initial Depth to Water: 5.05 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
1/31/2024 9:27 AM	00:00	5.15 pH	15.15 °C	1,487.9 µS/cm	5.21 mg/L	2.33 NTU	180.8 mV	5.05 ft	150.00 ml/min
1/31/2024 9:32 AM	05:00	5.51 pH	16.37 °C	1,468.3 µS/cm	0.27 mg/L	0.87 NTU	231.5 mV	5.19 ft	150.00 ml/min
1/31/2024 9:37 AM	10:00	5.52 pH	16.54 °C	1,464.7 µS/cm	0.20 mg/L	0.95 NTU	480.7 mV	5.19 ft	150.00 ml/min
1/31/2024 9:42 AM	15:00	5.53 pH	16.66 °C	1,468.1 µS/cm	0.16 mg/L	0.74 NTU	495.9 mV	5.20 ft	150.00 ml/min
1/31/2024 9:47 AM	20:00	5.53 pH	16.81 °C	1,462.3 µS/cm	0.13 mg/L	0.65 NTU	498.2 mV	5.20 ft	150.00 ml/min
1/31/2024 9:52 AM	25:00	5.53 pH	16.92 °C	1,467.6 µS/cm	0.11 mg/L	0.65 NTU	501.8 mV	5.21 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-97	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 2:12:53 PM
Project: MCD SAGW 1 (3)
Operator Name: P Wahl

Location Name: MCD-B-98 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 9.01 ft** **Total Depth: 19.01 ft** **Initial Depth to Water: 7.89 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 3000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
1/30/2024 2:13 PM	00:00	7.02 pH	20.90 °C	254.16 µS/cm	5.99 mg/L	10.30 NTU	93.1 mV	8.00 ft	100.00 ml/min
1/30/2024 2:18 PM	05:00	6.64 pH	18.93 °C	233.93 µS/cm	5.12 mg/L	5.90 NTU	53.7 mV	8.04 ft	100.00 ml/min
1/30/2024 2:23 PM	10:00	6.64 pH	19.19 °C	231.65 µS/cm	4.97 mg/L	6.89 NTU	92.6 mV	8.08 ft	100.00 ml/min
1/30/2024 2:28 PM	15:00	6.65 pH	19.39 °C	228.23 µS/cm	4.84 mg/L	5.89 NTU	40.8 mV	8.14 ft	100.00 ml/min
1/30/2024 2:33 PM	20:00	6.64 pH	19.39 °C	228.03 µS/cm	4.73 mg/L	4.27 NTU	37.7 mV	8.20 ft	100.00 ml/min
1/30/2024 2:38 PM	25:00	6.64 pH	19.38 °C	226.85 µS/cm	4.63 mg/L	4.19 NTU	33.8 mV	8.25 ft	100.00 ml/min
1/30/2024 2:43 PM	30:00	6.65 pH	19.36 °C	224.50 µS/cm	4.56 mg/L	4.43 NTU	75.4 mV	8.32 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-98	

Low-Flow Test Report:

Test Date / Time: 2/2/2024 8:31:59 AM
Project: Plant McDonough SA (7)
Operator Name: D Bloomfield

Location Name: MCD-B-101D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 64.9 ft** **Total Depth: 74.9 ft** **Initial Depth to Water: 38.45 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 70 ft** **Estimated Total Volume Pumped: 13396.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: -0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	+/- 5	
2/2/2024 8:31 AM	00:00	6.03 pH	11.64 °C	728.27 µS/cm	6.08 mg/L	19.00 NTU	15.1 mV	38.45 ft	100.00 ml/min
2/2/2024 8:35 AM	04:00	6.17 pH	12.39 °C	856.89 µS/cm	5.29 mg/L	18.90 NTU	-0.8 mV	38.15 ft	100.00 ml/min
2/2/2024 8:39 AM	08:00	6.22 pH	14.30 °C	848.47 µS/cm	5.26 mg/L	21.30 NTU	-0.1 mV	38.35 ft	100.00 ml/min
2/2/2024 8:43 AM	12:00	6.24 pH	13.71 °C	840.45 µS/cm	5.31 mg/L	15.90 NTU	-0.1 mV	38.35 ft	100.00 ml/min
2/2/2024 8:47 AM	16:00	6.24 pH	11.88 °C	875.65 µS/cm	5.58 mg/L	15.40 NTU	-0.9 mV	38.35 ft	100.00 ml/min
2/2/2024 8:51 AM	20:00	6.40 pH	13.49 °C	864.15 µS/cm	7.96 mg/L	14.60 NTU	-12.5 mV	38.35 ft	100.00 ml/min
2/2/2024 8:55 AM	24:00	6.51 pH	13.93 °C	855.79 µS/cm	9.26 mg/L	13.60 NTU	-15.0 mV	38.35 ft	100.00 ml/min
2/2/2024 8:59 AM	28:00	6.59 pH	14.16 °C	849.67 µS/cm	9.85 mg/L	13.00 NTU	-15.7 mV	38.35 ft	100.00 ml/min
2/2/2024 9:03 AM	32:00	6.64 pH	14.62 °C	843.04 µS/cm	9.87 mg/L	9.08 NTU	-15.4 mV	38.35 ft	100.00 ml/min
2/2/2024 9:07 AM	36:00	6.67 pH	15.11 °C	829.68 µS/cm	9.89 mg/L	9.89 NTU	-14.6 mV	38.35 ft	100.00 ml/min
2/2/2024 9:11 AM	40:00	6.69 pH	15.23 °C	818.16 µS/cm	9.99 mg/L	6.94 NTU	-13.4 mV	38.35 ft	100.00 ml/min
2/2/2024 9:15 AM	44:00	6.72 pH	15.43 °C	816.22 µS/cm	9.97 mg/L	6.64 NTU	-12.0 mV	38.35 ft	100.00 ml/min
2/2/2024 9:19 AM	48:00	6.74 pH	15.58 °C	805.71 µS/cm	10.03 mg/L	6.24 NTU	-10.7 mV	38.35 ft	100.00 ml/min
2/2/2024 9:23 AM	52:00	6.75 pH	15.82 °C	797.13 µS/cm	10.07 mg/L	7.98 NTU	-9.0 mV	38.35 ft	100.00 ml/min
2/2/2024 9:27 AM	56:00	6.75 pH	15.96 °C	785.05 µS/cm	10.01 mg/L	5.43 NTU	-7.0 mV	38.35 ft	100.00 ml/min

2/2/2024 9:31 AM	01:00:00	6.76 pH	15.56 °C	780.39 µS/cm	10.14 mg/L	5.88 NTU	-5.5 mV	38.35 ft	100.00 ml/min
2/2/2024 9:35 AM	01:04:00	6.76 pH	15.35 °C	777.02 µS/cm	10.34 mg/L	5.45 NTU	-4.3 mV	38.35 ft	100.00 ml/min
2/2/2024 9:39 AM	01:08:00	6.77 pH	15.35 °C	771.23 µS/cm	10.39 mg/L	5.15 NTU	-3.0 mV	38.35 ft	100.00 ml/min
2/2/2024 9:43 AM	01:12:00	6.75 pH	15.92 °C	763.54 µS/cm	10.72 mg/L	6.76 NTU	-1.3 mV	38.35 ft	100.00 ml/min
2/2/2024 9:47 AM	01:16:00	6.75 pH	16.46 °C	756.42 µS/cm	10.39 mg/L	5.15 NTU	-0.3 mV	38.35 ft	100.00 ml/min
2/2/2024 9:51 AM	01:20:00	6.76 pH	16.86 °C	752.97 µS/cm	10.43 mg/L	5.49 NTU	0.5 mV	38.35 ft	100.00 ml/min
2/2/2024 9:55 AM	01:24:00	6.77 pH	17.00 °C	745.93 µS/cm	10.16 mg/L	6.17 NTU	1.0 mV	38.35 ft	100.00 ml/min
2/2/2024 9:59 AM	01:28:00	6.77 pH	16.99 °C	738.13 µS/cm	10.17 mg/L	6.55 NTU	2.0 mV	38.35 ft	100.00 ml/min
2/2/2024 10:01 AM	01:29:58	6.77 pH	16.88 °C	752.73 µS/cm	10.17 mg/L	6.55 NTU	3.6 mV	38.35 ft	100.00 ml/min
2/2/2024 10:05 AM	01:33:58	6.78 pH	16.59 °C	745.33 µS/cm	10.18 mg/L	5.55 NTU	3.5 mV	38.35 ft	100.00 ml/min
2/2/2024 10:09 AM	01:37:58	6.76 pH	16.55 °C	732.74 µS/cm	10.24 mg/L	4.91 NTU	4.4 mV	38.35 ft	100.00 ml/min
2/2/2024 10:13 AM	01:41:58	6.78 pH	16.82 °C	722.12 µS/cm	10.22 mg/L	4.54 NTU	4.7 mV	38.35 ft	100.00 ml/min
2/2/2024 10:17 AM	01:45:58	6.78 pH	17.01 °C	706.67 µS/cm	11.83 mg/L	4.88 NTU	5.1 mV	38.35 ft	100.00 ml/min
2/2/2024 10:21 AM	01:49:58	6.78 pH	17.35 °C	701.21 µS/cm	11.11 mg/L	4.59 NTU	6.0 mV	38.35 ft	100.00 ml/min
2/2/2024 10:25 AM	01:53:58	6.78 pH	17.43 °C	689.76 µS/cm	10.68 mg/L	3.94 NTU	6.1 mV	38.35 ft	100.00 ml/min
2/2/2024 10:29 AM	01:57:58	6.76 pH	17.50 °C	683.32 µS/cm	10.41 mg/L	4.07 NTU	7.2 mV	38.35 ft	100.00 ml/min
2/2/2024 10:33 AM	02:01:58	6.77 pH	17.71 °C	696.52 µS/cm	10.32 mg/L	4.01 NTU	7.2 mV	38.35 ft	100.00 ml/min
2/2/2024 10:37 AM	02:05:58	6.76 pH	17.62 °C	696.97 µS/cm	10.09 mg/L	3.86 NTU	7.4 mV	38.35 ft	100.00 ml/min
2/2/2024 10:41 AM	02:09:58	6.75 pH	17.80 °C	692.50 µS/cm	10.00 mg/L	4.01 NTU	7.8 mV	38.35 ft	100.00 ml/min
2/2/2024 10:46 AM	02:14:58	6.75 pH	18.02 °C	704.84 µS/cm	9.91 mg/L	3.47 NTU	8.5 mV	38.35 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-101D	

Low-Flow Test Report:

Test Date / Time: 2/2/2024 8:41:43 AM
Project: MCD SAGW 1 (11)
Operator Name: P Wahl

Location Name: MCD-B-102D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.4 ft** **Total Depth: 84.4 ft** **Initial Depth to Water: 34.08 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 80 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.88 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/2/2024 8:41 AM	00:00	5.70 pH	11.15 °C	698.70 µS/cm	6.02 mg/L	2.31 NTU	105.8 mV	34.36 ft	100.00 ml/min
2/2/2024 8:46 AM	05:00	5.51 pH	13.77 °C	580.89 µS/cm	1.63 mg/L	25.40 NTU	83.8 mV	34.65 ft	100.00 ml/min
2/2/2024 8:51 AM	10:00	5.46 pH	15.22 °C	565.30 µS/cm	0.55 mg/L	7.22 NTU	108.2 mV	34.76 ft	100.00 ml/min
2/2/2024 8:56 AM	15:00	5.48 pH	15.58 °C	561.85 µS/cm	0.35 mg/L	4.02 NTU	86.2 mV	34.84 ft	100.00 ml/min
2/2/2024 9:01 AM	20:00	5.47 pH	15.84 °C	561.86 µS/cm	0.27 mg/L	2.11 NTU	48.7 mV	34.86 ft	100.00 ml/min
2/2/2024 9:06 AM	25:00	5.46 pH	16.05 °C	561.17 µS/cm	0.22 mg/L	1.48 NTU	45.8 mV	34.91 ft	100.00 ml/min
2/2/2024 9:11 AM	30:00	5.46 pH	16.07 °C	562.01 µS/cm	0.19 mg/L	21.70 NTU	40.1 mV	34.93 ft	100.00 ml/min
2/2/2024 9:16 AM	35:00	5.45 pH	16.29 °C	563.00 µS/cm	0.17 mg/L	1.74 NTU	61.3 mV	34.96 ft	100.00 ml/min
2/2/2024 9:21 AM	40:00	5.45 pH	16.43 °C	561.70 µS/cm	0.16 mg/L	0.72 NTU	40.2 mV	34.96 ft	100.00 ml/min
2/2/2024 9:26 AM	45:00	5.45 pH	16.47 °C	562.31 µS/cm	0.14 mg/L	0.35 NTU	39.3 mV	34.96 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-102D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 2:46:11 PM
Project: MCD SAGW 1 (16)
Operator Name: P Wahl

Location Name: MCD-B-104D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50 ft** **Total Depth: 60 ft** **Initial Depth to Water: 5.25 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 55 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 8.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/5/2024 2:46 PM	00:00	7.95 pH	17.98 °C	1,029.5 µS/cm	6.62 mg/L	3.71 NTU	-21.8 mV	5.25 ft	100.00 ml/min
2/5/2024 2:51 PM	05:00	6.79 pH	16.83 °C	1,077.2 µS/cm	3.61 mg/L	1.84 NTU	-68.4 mV	6.42 ft	100.00 ml/min
2/5/2024 2:56 PM	10:00	6.80 pH	17.01 °C	1,079.3 µS/cm	2.57 mg/L	1.88 NTU	-73.5 mV	7.24 ft	100.00 ml/min
2/5/2024 3:01 PM	15:00	6.76 pH	17.01 °C	1,072.5 µS/cm	2.13 mg/L	1.60 NTU	-75.0 mV	8.06 ft	100.00 ml/min
2/5/2024 3:06 PM	20:00	6.70 pH	16.92 °C	1,072.0 µS/cm	1.39 mg/L	1.79 NTU	-77.5 mV	8.86 ft	100.00 ml/min
2/5/2024 3:11 PM	25:00	6.59 pH	17.01 °C	1,063.0 µS/cm	1.20 mg/L	1.53 NTU	-53.1 mV	9.52 ft	100.00 ml/min
2/5/2024 3:16 PM	30:00	6.45 pH	17.01 °C	1,059.4 µS/cm	0.77 mg/L	1.04 NTU	-82.5 mV	10.13 ft	100.00 ml/min
2/5/2024 3:21 PM	35:00	6.40 pH	17.12 °C	1,056.6 µS/cm	0.67 mg/L	1.24 NTU	-52.9 mV	10.84 ft	100.00 ml/min
2/5/2024 3:26 PM	40:00	6.40 pH	17.17 °C	1,056.9 µS/cm	0.41 mg/L	1.74 NTU	-51.9 mV	11.17 ft	100.00 ml/min
2/5/2024 3:31 PM	45:00	6.39 pH	17.18 °C	1,059.0 µS/cm	0.34 mg/L	2.42 NTU	-51.6 mV	11.62 ft	100.00 ml/min
2/5/2024 3:36 PM	50:00	6.36 pH	17.11 °C	1,058.0 µS/cm	0.32 mg/L	7.78 NTU	-49.7 mV	12.04 ft	100.00 ml/min
2/5/2024 3:41 PM	55:00	6.34 pH	17.18 °C	1,054.4 µS/cm	0.39 mg/L	4.81 NTU	-47.0 mV	12.36 ft	100.00 ml/min
2/5/2024 3:46 PM	01:00:00	6.32 pH	17.12 °C	1,052.4 µS/cm	0.36 mg/L	8.27 NTU	-44.7 mV	12.61 ft	100.00 ml/min
2/5/2024 3:51 PM	01:05:00	6.31 pH	17.09 °C	1,050.4 µS/cm	0.32 mg/L	7.14 NTU	-44.2 mV	12.84 ft	100.00 ml/min
2/5/2024 3:56 PM	01:10:00	6.29 pH	17.08 °C	1,048.5 µS/cm	0.29 mg/L	3.39 NTU	-41.7 mV	13.05 ft	100.00 ml/min

2/5/2024 4:01 PM	01:15:00	6.27 pH	17.01 °C	1,042.6 µS/cm	0.28 mg/L	2.44 NTU	-37.7 mV	13.21 ft	100.00 ml/min
2/5/2024 4:06 PM	01:20:00	6.26 pH	17.05 °C	1,039.9 µS/cm	0.26 mg/L	2.09 NTU	-36.7 mV	13.34 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-104D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/2/2024 9:18:10 AM
Project: Plant McDonough (9)
Operator Name: Daniel Howard

Location Name: MCD-B-106D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69.4 ft** **Total Depth: 79.4 ft** **Initial Depth to Water: 40.87 ft**	**Pump Type: Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 74 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-106D sample time 0943. Also collected field dup MCD- AP234-FD-5. Time 0948 Fe+2 = 0 mg/L , FD-5 Fe+2 = 0 mg/L

Weather Conditions:
Clear, temp 42 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/2/2024 9:18 AM	00:00	5.71 pH	16.91 °C	320.41 µS/cm	2.90 mg/L	1.05 NTU	272.5 mV	40.87 ft	200.00 ml/min
2/2/2024 9:23 AM	05:00	5.83 pH	17.08 °C	358.57 µS/cm	2.04 mg/L	0.93 NTU	279.0 mV	41.33 ft	200.00 ml/min
2/2/2024 9:28 AM	10:00	5.83 pH	17.10 °C	356.85 µS/cm	1.86 mg/L	1.02 NTU	201.9 mV	41.32 ft	200.00 ml/min
2/2/2024 9:33 AM	15:00	5.83 pH	17.21 °C	355.01 µS/cm	1.80 mg/L	0.97 NTU	185.4 mV	41.32 ft	200.00 ml/min
2/2/2024 9:38 AM	20:00	5.84 pH	17.27 °C	353.15 µS/cm	1.77 mg/L	0.60 NTU	175.0 mV	41.32 ft	200.00 ml/min
2/2/2024 9:43 AM	25:00	5.83 pH	17.36 °C	354.04 µS/cm	1.75 mg/L	0.52 NTU	167.3 mV	41.32 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-106D	

Low-Flow Test Report:

Test Date / Time: 2/1/2024 3:37:29 PM
Project: McDonough SAGW01 2024
Operator Name: John Bankhead

Location Name: MCD-B-107D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 75.5 ft** **Total Depth: 85.5 ft** **Initial Depth to Water: 24.57 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 80 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

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	
2/1/2024 3:37 PM	00:00	6.00 pH	24.18 °C	600.59 µS/cm	4.96 mg/L	2.92 NTU	32.8 mV	24.57 ft	200.00 ml/min
2/1/2024 3:42 PM	05:00	5.91 pH	20.03 °C	704.14 µS/cm	0.33 mg/L	2.26 NTU	0.4 mV	24.68 ft	200.00 ml/min
2/1/2024 3:47 PM	10:00	5.80 pH	19.70 °C	695.78 µS/cm	0.23 mg/L	1.33 NTU	19.6 mV	24.71 ft	200.00 ml/min
2/1/2024 3:52 PM	15:00	5.86 pH	19.71 °C	679.58 µS/cm	0.18 mg/L	0.81 NTU	25.1 mV	24.72 ft	200.00 ml/min
2/1/2024 3:57 PM	20:00	5.84 pH	19.59 °C	688.38 µS/cm	0.17 mg/L	0.56 NTU	30.4 mV	24.73 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 2:10:08 PM
Project: Plant McDonough SA (6)
Operator Name: D Bloomfield

Location Name: MCD-B-108D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 69 ft** **Total Depth: 79 ft** **Initial Depth to Water: 23.65 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 14600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	+/- 5	
2/1/2024 2:10 PM	00:00	5.48 pH	27.05 °C	788.06 µS/cm	3.38 mg/L	8.27 NTU	97.7 mV	23.65 ft	250.00 ml/min
2/1/2024 2:14 PM	04:00	5.52 pH	20.28 °C	860.95 µS/cm	1.14 mg/L	6.62 NTU	38.2 mV	24.09 ft	200.00 ml/min
2/1/2024 2:18 PM	08:00	5.54 pH	19.63 °C	848.18 µS/cm	1.03 mg/L	6.36 NTU	24.6 mV	24.09 ft	200.00 ml/min
2/1/2024 2:22 PM	12:00	5.54 pH	19.49 °C	877.07 µS/cm	0.83 mg/L	5.52 NTU	16.4 mV	24.09 ft	200.00 ml/min
2/1/2024 2:26 PM	16:00	5.56 pH	19.61 °C	850.36 µS/cm	0.38 mg/L	6.55 NTU	9.5 mV	24.09 ft	200.00 ml/min
2/1/2024 2:30 PM	20:00	5.57 pH	19.52 °C	834.04 µS/cm	0.19 mg/L	6.17 NTU	7.2 mV	24.09 ft	200.00 ml/min
2/1/2024 2:34 PM	24:00	5.59 pH	19.62 °C	818.68 µS/cm	0.21 mg/L	6.30 NTU	4.4 mV	24.09 ft	200.00 ml/min
2/1/2024 2:38 PM	28:00	5.59 pH	19.36 °C	838.22 µS/cm	0.16 mg/L	6.05 NTU	2.9 mV	24.09 ft	200.00 ml/min
2/1/2024 2:42 PM	32:00	5.60 pH	19.44 °C	845.41 µS/cm	0.17 mg/L	4.98 NTU	2.0 mV	24.09 ft	200.00 ml/min
2/1/2024 2:46 PM	36:00	5.61 pH	19.53 °C	821.26 µS/cm	0.16 mg/L	4.89 NTU	0.5 mV	24.09 ft	200.00 ml/min
2/1/2024 2:50 PM	40:00	5.62 pH	19.45 °C	821.22 µS/cm	0.16 mg/L	5.12 NTU	-0.1 mV	24.09 ft	200.00 ml/min
2/1/2024 2:54 PM	44:00	5.63 pH	19.50 °C	816.00 µS/cm	0.15 mg/L	5.23 NTU	-1.2 mV	24.09 ft	200.00 ml/min
2/1/2024 2:58 PM	48:00	5.64 pH	19.48 °C	813.09 µS/cm	0.16 mg/L	4.91 NTU	-1.5 mV	24.09 ft	200.00 ml/min
2/1/2024 3:02 PM	52:00	5.66 pH	19.53 °C	829.26 µS/cm	0.15 mg/L	4.64 NTU	-2.5 mV	24.09 ft	200.00 ml/min
2/1/2024 3:06 PM	56:00	5.66 pH	19.35 °C	830.58 µS/cm	0.15 mg/L	4.34 NTU	-2.5 mV	24.09 ft	200.00 ml/min

2/1/2024 3:10 PM	01:00:00	5.68 pH	19.23 °C	823.69 µS/cm	0.15 mg/L	4.00 NTU	-3.1 mV	24.09 ft	200.00 ml/min
2/1/2024 3:14 PM	01:04:00	5.67 pH	19.33 °C	823.99 µS/cm	0.14 mg/L	3.97 NTU	-4.0 mV	24.09 ft	200.00 ml/min
2/1/2024 3:18 PM	01:08:00	5.70 pH	19.40 °C	810.52 µS/cm	0.13 mg/L	3.32 NTU	-4.0 mV	24.09 ft	200.00 ml/min
2/1/2024 3:22 PM	01:12:00	5.70 pH	19.45 °C	822.86 µS/cm	0.13 mg/L	2.91 NTU	-3.9 mV	24.09 ft	200.00 ml/min

Samples

Sample ID:	Description:
MCD-B-108D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 1:30:40 PM
Project: Plant McDonough SA (10)
Operator Name: D Bloomfield

Location Name: MCD-B-111D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 74.2 ft** **Total Depth: 84.2 ft** **Initial Depth to Water: 11 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 79 ft** **Estimated Total Volume Pumped: 4480 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 1.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	+/- 5	
2/5/2024 1:30 PM	00:00	7.08 pH	17.51 °C	792.47 µS/cm	0.20 mg/L	6.02 NTU	92.2 mV	11.00 ft	200.00 ml/min
2/5/2024 1:34 PM	04:00	7.10 pH	17.46 °C	796.72 µS/cm	0.13 mg/L	3.75 NTU	47.6 mV	11.75 ft	200.00 ml/min
2/5/2024 1:38 PM	08:00	7.11 pH	17.50 °C	797.87 µS/cm	0.11 mg/L	3.08 NTU	30.6 mV	12.30 ft	180.00 ml/min
2/5/2024 1:42 PM	12:00	7.11 pH	17.58 °C	797.69 µS/cm	0.12 mg/L	2.79 NTU	21.5 mV	12.30 ft	180.00 ml/min
2/5/2024 1:46 PM	16:00	7.11 pH	17.60 °C	794.74 µS/cm	0.11 mg/L	4.53 NTU	15.8 mV	12.28 ft	180.00 ml/min
2/5/2024 1:50 PM	20:00	7.11 pH	17.74 °C	797.36 µS/cm	0.11 mg/L	4.79 NTU	11.8 mV	12.28 ft	180.00 ml/min
2/5/2024 1:55 PM	25:00	7.11 pH	17.77 °C	793.07 µS/cm	0.10 mg/L	3.50 NTU	9.1 mV	12.28 ft	180.00 ml/min

Samples

Sample ID:	Description:
MCD-B-111D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 12:08:10 PM
Project: MCD SAGW 1 (15)
Operator Name: P Wahl

Location Name: MCD-B-120D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.08 ft** **Total Depth: 72.08 ft** **Initial Depth to Water: 35.93 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
2/5/2024 12:08 PM	00:00	6.05 pH	14.24 °C	573.09 µS/cm	4.98 mg/L	11.00 NTU	-31.5 mV	35.93 ft	120.00 ml/min
2/5/2024 12:13 PM	05:00	5.27 pH	16.00 °C	855.28 µS/cm	1.94 mg/L	2.24 NTU	4.5 mV	35.95 ft	120.00 ml/min
2/5/2024 12:18 PM	10:00	5.27 pH	16.08 °C	858.55 µS/cm	1.74 mg/L	1.41 NTU	4.6 mV	35.95 ft	120.00 ml/min
2/5/2024 12:23 PM	15:00	5.26 pH	16.11 °C	856.78 µS/cm	1.38 mg/L	1.49 NTU	16.8 mV	35.95 ft	120.00 ml/min
2/5/2024 12:28 PM	20:00	5.26 pH	16.21 °C	856.02 µS/cm	1.17 mg/L	2.28 NTU	36.9 mV	35.95 ft	120.00 ml/min
2/5/2024 12:33 PM	25:00	5.26 pH	16.40 °C	853.16 µS/cm	1.01 mg/L	1.84 NTU	50.0 mV	35.95 ft	120.00 ml/min
2/5/2024 12:38 PM	30:00	5.26 pH	16.46 °C	851.19 µS/cm	0.84 mg/L	1.57 NTU	79.7 mV	35.95 ft	120.00 ml/min
2/5/2024 12:43 PM	35:00	5.26 pH	16.74 °C	850.67 µS/cm	0.73 mg/L	1.10 NTU	86.5 mV	35.95 ft	120.00 ml/min
2/5/2024 12:48 PM	40:00	5.26 pH	17.10 °C	845.89 µS/cm	0.61 mg/L	1.10 NTU	90.1 mV	35.95 ft	120.00 ml/min
2/5/2024 12:53 PM	45:00	5.26 pH	17.26 °C	843.39 µS/cm	0.52 mg/L	1.17 NTU	91.7 mV	35.95 ft	120.00 ml/min
2/5/2024 12:58 PM	50:00	5.26 pH	17.41 °C	842.91 µS/cm	0.46 mg/L	1.67 NTU	92.7 mV	35.95 ft	120.00 ml/min

Samples

Sample ID:	Description:
MCD-B-120D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:58:38 AM
Project: Plant McDonough (6)
Operator Name: Daniel Howard

Location Name: MCD-B-122D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.63 ft** **Total Depth: 80.63 ft** **Initial Depth to Water: 30.49 ft**	**Pump Type: Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 75.6 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-122D sample time 1048. Time 1053 Fe+2 = >7.0

Weather Conditions:
Clear, Temp 35 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/1/2024 9:58 AM	00:00	6.01 pH	13.78 °C	501.95 µS/cm	1.70 mg/L	1.84 NTU	-45.6 mV	30.49 ft	100.00 ml/min
2/1/2024 10:03 AM	05:00	6.00 pH	14.69 °C	495.93 µS/cm	1.23 mg/L	1.57 NTU	-86.2 mV	31.20 ft	100.00 ml/min
2/1/2024 10:08 AM	10:00	6.00 pH	15.12 °C	491.97 µS/cm	1.09 mg/L	1.79 NTU	-85.6 mV	31.52 ft	100.00 ml/min
2/1/2024 10:13 AM	15:00	5.99 pH	15.26 °C	493.48 µS/cm	0.95 mg/L	1.71 NTU	-81.1 mV	31.57 ft	100.00 ml/min
2/1/2024 10:18 AM	20:00	6.00 pH	15.50 °C	494.54 µS/cm	0.85 mg/L	1.12 NTU	-42.8 mV	31.58 ft	100.00 ml/min
2/1/2024 10:23 AM	25:00	6.00 pH	15.83 °C	498.86 µS/cm	0.78 mg/L	1.01 NTU	-80.6 mV	31.58 ft	100.00 ml/min
2/1/2024 10:28 AM	30:00	6.00 pH	15.92 °C	503.12 µS/cm	0.71 mg/L	0.95 NTU	-80.1 mV	31.58 ft	100.00 ml/min
2/1/2024 10:33 AM	35:00	6.00 pH	16.02 °C	505.21 µS/cm	0.95 mg/L	1.25 NTU	-78.1 mV	31.58 ft	100.00 ml/min
2/1/2024 10:38 AM	40:00	6.00 pH	16.11 °C	508.06 µS/cm	0.79 mg/L	1.00 NTU	-38.9 mV	31.58 ft	100.00 ml/min
2/1/2024 10:43 AM	45:00	6.00 pH	16.41 °C	511.91 µS/cm	0.68 mg/L	0.99 NTU	-38.2 mV	31.58 ft	100.00 ml/min
2/1/2024 10:48 AM	50:00	6.01 pH	16.25 °C	516.13 µS/cm	0.61 mg/L	1.18 NTU	-73.6 mV	31.58 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-122D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 10:22:17 AM
Project: McDonough SAGW01 2024 (2)
Operator Name: Mark Mann

Location Name: MCD-B-125D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 135 ft** **Total Depth: 145 ft** **Initial Depth to Water: 23.91 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 140 ft** **Estimated Total Volume Pumped: 27701.666 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 32.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/5/2024 10:22 AM	00:00	5.97 pH	12.02 °C	1,068.2 µS/cm	7.49 mg/L	2.93 NTU	76.8 mV	23.91 ft	230.00 ml/min
2/5/2024 10:27 AM	05:00	6.12 pH	15.94 °C	1,094.6 µS/cm	2.44 mg/L	11.60 NTU	2.8 mV	26.35 ft	150.00 ml/min
2/5/2024 10:32 AM	10:00	6.14 pH	15.55 °C	1,087.8 µS/cm	2.56 mg/L	1.55 NTU	-15.6 mV	27.33 ft	150.00 ml/min
2/5/2024 10:37 AM	15:00	6.14 pH	15.62 °C	1,034.1 µS/cm	0.26 mg/L	4.02 NTU	-24.9 mV	27.33 ft	150.00 ml/min
2/5/2024 10:42 AM	20:00	6.15 pH	15.75 °C	987.63 µS/cm	0.19 mg/L	3.36 NTU	-31.4 mV	28.77 ft	150.00 ml/min
2/5/2024 10:47 AM	25:00	6.15 pH	15.45 °C	962.66 µS/cm	0.12 mg/L	2.14 NTU	-36.2 mV	30.29 ft	150.00 ml/min
2/5/2024 10:52 AM	30:00	6.15 pH	15.58 °C	974.02 µS/cm	0.18 mg/L	3.78 NTU	-39.6 mV	31.59 ft	150.00 ml/min
2/5/2024 10:57 AM	35:00	6.16 pH	15.79 °C	987.05 µS/cm	0.14 mg/L	1.86 NTU	-42.1 mV	32.46 ft	100.00 ml/min
2/5/2024 11:02 AM	40:00	6.16 pH	15.04 °C	960.92 µS/cm	0.16 mg/L	2.59 NTU	-41.1 mV	33.20 ft	100.00 ml/min
2/5/2024 11:07 AM	45:00	6.17 pH	15.13 °C	965.38 µS/cm	0.13 mg/L	1.34 NTU	-63.6 mV	34.84 ft	100.00 ml/min
2/5/2024 11:12 AM	50:00	6.17 pH	15.21 °C	990.86 µS/cm	0.15 mg/L	3.83 NTU	-46.4 mV	33.98 ft	100.00 ml/min
2/5/2024 11:12 AM	50:37	6.16 pH	15.21 °C	985.44 µS/cm	0.15 mg/L	1.20 NTU	-43.5 mV	34.84 ft	100.00 ml/min
2/5/2024 11:17 AM	55:37	6.17 pH	15.17 °C	969.13 µS/cm	0.10 mg/L	1.00 NTU	-45.9 mV	35.71 ft	100.00 ml/min
2/5/2024 11:22 AM	01:00:37	6.17 pH	15.18 °C	972.57 µS/cm	0.13 mg/L	1.39 NTU	-47.9 mV	36.49 ft	100.00 ml/min
2/5/2024 11:27 AM	01:05:37	6.17 pH	15.43 °C	973.35 µS/cm	0.11 mg/L	3.62 NTU	-290.9 mV	37.03 ft	100.00 ml/min

2/5/2024 11:32 AM	01:10:37	6.17 pH	15.62 °C	974.42 µS/cm	0.12 mg/L	3.54 NTU	-115.0 mV	37.95 ft	100.00 ml/min
2/5/2024 11:37 AM	01:15:37	6.17 pH	15.68 °C	977.03 µS/cm	0.13 mg/L	3.95 NTU	-86.4 mV	38.56 ft	100.00 ml/min
2/5/2024 11:42 AM	01:20:37	6.18 pH	15.29 °C	966.31 µS/cm	0.12 mg/L	3.58 NTU	-74.9 mV	39.08 ft	100.00 ml/min
2/5/2024 11:47 AM	01:25:37	6.18 pH	15.05 °C	990.05 µS/cm	0.14 mg/L	1.14 NTU	-70.6 mV	39.64 ft	100.00 ml/min
2/5/2024 11:52 AM	01:30:37	6.18 pH	15.03 °C	955.18 µS/cm	0.18 mg/L	3.49 NTU	-64.4 mV	40.09 ft	100.00 ml/min
2/5/2024 11:57 AM	01:35:37	6.19 pH	14.58 °C	972.95 µS/cm	0.17 mg/L	3.19 NTU	-61.5 mV	40.44 ft	100.00 ml/min
2/5/2024 12:02 PM	01:40:37	6.20 pH	14.22 °C	980.42 µS/cm	0.17 mg/L	1.90 NTU	-92.4 mV	40.69 ft	100.00 ml/min
2/5/2024 12:07 PM	01:45:37	6.19 pH	14.06 °C	988.45 µS/cm	0.17 mg/L	1.33 NTU	-58.4 mV	41.01 ft	100.00 ml/min
2/5/2024 12:10 PM	01:48:01	6.19 pH	14.08 °C	974.34 µS/cm	0.15 mg/L	1.66 NTU	-60.4 mV	41.20 ft	100.00 ml/min
2/5/2024 12:15 PM	01:53:01	6.19 pH	14.00 °C	959.72 µS/cm	0.16 mg/L	1.20 NTU	-57.2 mV	41.47 ft	100.00 ml/min
2/5/2024 12:20 PM	01:58:01	6.19 pH	13.96 °C	990.21 µS/cm	0.15 mg/L	3.93 NTU	-55.8 mV	41.74 ft	100.00 ml/min
2/5/2024 12:25 PM	02:03:01	6.19 pH	14.04 °C	959.93 µS/cm	0.17 mg/L	1.08 NTU	-54.9 mV	42.04 ft	100.00 ml/min
2/5/2024 12:30 PM	02:08:01	6.19 pH	14.26 °C	997.52 µS/cm	0.14 mg/L	1.33 NTU	-54.2 mV	42.33 ft	100.00 ml/min
2/5/2024 12:35 PM	02:13:01	6.19 pH	14.40 °C	989.21 µS/cm	0.14 mg/L	1.66 NTU	-53.9 mV	41.60 ft	150.00 ml/min
2/5/2024 12:40 PM	02:18:01	6.17 pH	15.96 °C	990.23 µS/cm	0.15 mg/L	3.52 NTU	-93.4 mV	43.61 ft	150.00 ml/min
2/5/2024 12:45 PM	02:23:01	6.14 pH	16.43 °C	957.08 µS/cm	0.12 mg/L	2.99 NTU	-95.8 mV	43.61 ft	150.00 ml/min
2/5/2024 12:50 PM	02:28:01	6.10 pH	16.83 °C	923.33 µS/cm	0.12 mg/L	2.31 NTU	-62.8 mV	45.47 ft	150.00 ml/min
2/5/2024 12:55 PM	02:33:01	6.08 pH	16.74 °C	923.95 µS/cm	0.08 mg/L	2.26 NTU	-62.8 mV	46.14 ft	150.00 ml/min
2/5/2024 1:00 PM	02:38:01	6.06 pH	17.19 °C	932.53 µS/cm	0.07 mg/L	2.59 NTU	-60.6 mV	47.21 ft	250.00 ml/min
2/5/2024 1:05 PM	02:43:01	6.05 pH	17.35 °C	933.16 µS/cm	0.08 mg/L	2.33 NTU	-61.9 mV	48.31 ft	250.00 ml/min
2/5/2024 1:10 PM	02:48:01	6.05 pH	17.33 °C	925.87 µS/cm	0.08 mg/L	1.94 NTU	-61.0 mV	49.82 ft	250.00 ml/min
2/5/2024 1:15 PM	02:53:01	6.05 pH	17.44 °C	915.67 µS/cm	0.07 mg/L	1.32 NTU	-94.9 mV	51.36 ft	250.00 ml/min
2/5/2024 1:20 PM	02:58:01	6.05 pH	17.36 °C	925.88 µS/cm	0.08 mg/L	1.20 NTU	-60.1 mV	52.68 ft	250.00 ml/min
2/5/2024 1:25 PM	03:03:01	6.05 pH	17.32 °C	919.29 µS/cm	0.11 mg/L	3.97 NTU	-58.8 mV	53.93 ft	250.00 ml/min
2/5/2024 1:30 PM	03:08:01	6.05 pH	17.28 °C	899.56 µS/cm	0.09 mg/L	1.35 NTU	-57.3 mV	55.68 ft	100.00 ml/min
2/5/2024 1:35 PM	03:13:01	6.06 pH	16.92 °C	899.65 µS/cm	0.12 mg/L	3.57 NTU	-55.0 mV	55.78 ft	100.00 ml/min
2/5/2024 1:40 PM	03:18:01	6.06 pH	16.29 °C	915.97 µS/cm	0.17 mg/L	2.52 NTU	-51.5 mV	55.92 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-125	

Low-Flow Test Report:

Test Date / Time: 2/1/2024 9:18:43 AM
Project: Plant McDonough SA (4)
Operator Name: D Bloomfield

Location Name: MCD-B-62 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.67 ft** **Total Depth: 39.67 ft** **Initial Depth to Water: 16.55 ft**	**Pump Type: peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 15527.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 170 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	+/- 5	
2/1/2024 9:18 AM	00:00	7.02 pH	9.98 °C	532.34 µS/cm	8.15 mg/L	9.56 NTU	-11.0 mV	16.55 ft	200.00 ml/min
2/1/2024 9:22 AM	04:00	6.68 pH	12.85 °C	504.84 µS/cm	0.40 mg/L	10.70 NTU	-19.0 mV	16.85 ft	170.00 ml/min
2/1/2024 9:26 AM	08:00	6.69 pH	13.76 °C	491.33 µS/cm	0.29 mg/L	34.30 NTU	-21.5 mV	16.85 ft	170.00 ml/min
2/1/2024 9:30 AM	12:00	6.70 pH	13.53 °C	490.40 µS/cm	0.25 mg/L	42.50 NTU	-21.3 mV	16.85 ft	170.00 ml/min
2/1/2024 9:34 AM	16:00	6.70 pH	13.66 °C	486.24 µS/cm	0.22 mg/L	29.80 NTU	-21.6 mV	16.85 ft	170.00 ml/min
2/1/2024 9:38 AM	20:00	6.70 pH	14.15 °C	483.79 µS/cm	0.22 mg/L	37.50 NTU	-21.0 mV	16.85 ft	170.00 ml/min
2/1/2024 9:42 AM	24:00	6.70 pH	14.55 °C	481.09 µS/cm	0.26 mg/L	27.80 NTU	-20.5 mV	16.85 ft	170.00 ml/min
2/1/2024 9:46 AM	28:00	6.68 pH	14.88 °C	464.16 µS/cm	0.31 mg/L	22.70 NTU	-20.1 mV	16.85 ft	170.00 ml/min
2/1/2024 9:50 AM	31:57	6.63 pH	15.11 °C	420.38 µS/cm	0.33 mg/L	18.50 NTU	-26.0 mV	16.85 ft	170.00 ml/min
2/1/2024 9:54 AM	35:57	6.55 pH	15.52 °C	376.58 µS/cm	0.34 mg/L	16.50 NTU	-18.8 mV	16.85 ft	170.00 ml/min
2/1/2024 9:58 AM	39:57	6.51 pH	15.40 °C	346.68 µS/cm	0.37 mg/L	13.30 NTU	-16.9 mV	16.85 ft	170.00 ml/min
2/1/2024 10:02 AM	43:57	6.48 pH	15.85 °C	332.41 µS/cm	0.39 mg/L	10.70 NTU	-15.4 mV	16.85 ft	170.00 ml/min
2/1/2024 10:06 AM	47:57	6.46 pH	15.92 °C	322.46 µS/cm	0.41 mg/L	10.80 NTU	-14.1 mV	16.85 ft	170.00 ml/min
2/1/2024 10:10 AM	51:57	6.44 pH	16.02 °C	313.02 µS/cm	0.43 mg/L	9.89 NTU	-13.3 mV	16.85 ft	170.00 ml/min
2/1/2024 10:13 AM	54:38	6.45 pH	15.65 °C	311.14 µS/cm	0.46 mg/L	9.10 NTU	-14.2 mV	16.85 ft	170.00 ml/min

2/1/2024 10:17 AM	58:38	6.44 pH	16.10 °C	310.07 µS/cm	0.47 mg/L	8.97 NTU	-13.8 mV	16.85 ft	170.00 ml/min
2/1/2024 10:21 AM	01:02:38	6.44 pH	16.35 °C	311.97 µS/cm	0.49 mg/L	9.66 NTU	-12.3 mV	16.85 ft	170.00 ml/min
2/1/2024 10:25 AM	01:06:38	6.44 pH	16.46 °C	306.58 µS/cm	0.52 mg/L	8.30 NTU	-11.9 mV	16.85 ft	170.00 ml/min
2/1/2024 10:29 AM	01:10:38	6.43 pH	16.37 °C	297.92 µS/cm	0.52 mg/L	6.47 NTU	-11.7 mV	16.85 ft	170.00 ml/min
2/1/2024 10:33 AM	01:14:38	6.42 pH	16.53 °C	297.51 µS/cm	0.54 mg/L	6.48 NTU	-11.9 mV	16.85 ft	170.00 ml/min
2/1/2024 10:37 AM	01:18:38	6.42 pH	16.58 °C	297.91 µS/cm	0.55 mg/L	5.84 NTU	-11.8 mV	16.85 ft	170.00 ml/min
2/1/2024 10:41 AM	01:22:38	6.42 pH	16.56 °C	297.26 µS/cm	0.54 mg/L	6.00 NTU	-11.3 mV	16.85 ft	170.00 ml/min
2/1/2024 10:45 AM	01:26:38	6.41 pH	16.90 °C	293.38 µS/cm	0.52 mg/L	5.68 NTU	-12.0 mV	16.85 ft	170.00 ml/min
2/1/2024 10:50 AM	01:31:38	6.41 pH	16.88 °C	291.03 µS/cm	0.53 mg/L	4.73 NTU	-11.9 mV	16.85 ft	170.00 ml/min

Samples

Sample ID:	Description:
MCD-B-62	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/31/2024 1:21:30 PM
Project: Plant McDonough SA (2)
Operator Name: D Bloomfield

Location Name: MCD-B-100 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.93 ft** **Total Depth: 47.93 ft** **Initial Depth to Water: 34.87 ft**	**Pump Type: Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 3400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

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	
1/31/2024 1:21 PM	00:00	5.51 pH	23.10 °C	518.61 µS/cm	3.30 mg/L	63.00 NTU	129.4 mV	34.87 ft	150.00 ml/min
1/31/2024 1:25 PM	04:00	5.48 pH	20.83 °C	509.79 µS/cm	2.87 mg/L	60.30 NTU	116.1 mV	35.01 ft	100.00 ml/min
1/31/2024 1:29 PM	08:00	5.43 pH	19.97 °C	540.00 µS/cm	2.41 mg/L	43.40 NTU	189.0 mV	35.01 ft	100.00 ml/min
1/31/2024 1:33 PM	12:00	5.38 pH	20.19 °C	548.76 µS/cm	1.79 mg/L	26.80 NTU	224.9 mV	35.01 ft	100.00 ml/min
1/31/2024 1:37 PM	16:00	5.29 pH	20.24 °C	591.90 µS/cm	1.14 mg/L	17.30 NTU	144.6 mV	35.01 ft	100.00 ml/min
1/31/2024 1:41 PM	20:00	5.28 pH	20.05 °C	630.34 µS/cm	0.81 mg/L	9.01 NTU	86.5 mV	35.01 ft	100.00 ml/min
1/31/2024 1:45 PM	24:00	5.34 pH	20.25 °C	648.84 µS/cm	0.59 mg/L	3.89 NTU	60.8 mV	35.01 ft	100.00 ml/min
1/31/2024 1:49 PM	28:00	5.37 pH	20.23 °C	660.06 µS/cm	0.46 mg/L	3.13 NTU	45.6 mV	35.01 ft	100.00 ml/min
1/31/2024 1:55 PM	34:00	5.35 pH	20.37 °C	667.01 µS/cm	0.39 mg/L	1.59 NTU	38.8 mV	35.01 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/30/2024 9:59:29 AM
Project: McDonough SAGW01 2024
Operator Name: John Bankhead

Location Name: MCD-DGWA-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.4 ft** **Total Depth: 38.4 ft** **Initial Depth to Water: 14.52 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 14350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 12.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

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	
1/30/2024 9:59 AM	00:00	6.28 pH	9.79 °C	194.80 µS/cm	7.48 mg/L	20.30 NTU	20.8 mV	14.52 ft	200.00 ml/min
1/30/2024 10:04 AM	05:00	6.22 pH	15.52 °C	225.37 µS/cm	0.26 mg/L	20.20 NTU	-33.7 mV	16.57 ft	200.00 ml/min
1/30/2024 10:09 AM	10:00	6.21 pH	16.27 °C	210.78 µS/cm	0.22 mg/L	18.70 NTU	-16.7 mV	17.97 ft	200.00 ml/min
1/30/2024 10:14 AM	15:00	6.15 pH	16.32 °C	171.89 µS/cm	2.12 mg/L	18.50 NTU	33.5 mV	19.35 ft	200.00 ml/min
1/30/2024 10:19 AM	20:00	6.14 pH	16.24 °C	168.40 µS/cm	3.29 mg/L	15.00 NTU	36.8 mV	20.57 ft	200.00 ml/min
1/30/2024 10:24 AM	25:00	6.15 pH	16.10 °C	169.73 µS/cm	3.39 mg/L	12.20 NTU	33.1 mV	21.71 ft	200.00 ml/min
1/30/2024 10:29 AM	30:00	6.16 pH	16.50 °C	169.94 µS/cm	3.61 mg/L	10.20 NTU	30.8 mV	22.81 ft	200.00 ml/min
1/30/2024 10:34 AM	35:00	6.18 pH	16.64 °C	171.67 µS/cm	3.50 mg/L	8.16 NTU	14.8 mV	23.55 ft	200.00 ml/min
1/30/2024 10:39 AM	40:00	6.19 pH	16.58 °C	172.48 µS/cm	3.39 mg/L	7.33 NTU	21.8 mV	24.29 ft	160.00 ml/min
1/30/2024 10:44 AM	45:00	6.22 pH	16.25 °C	178.83 µS/cm	3.14 mg/L	6.67 NTU	12.2 mV	24.77 ft	160.00 ml/min
1/30/2024 10:49 AM	50:00	6.22 pH	16.37 °C	180.49 µS/cm	3.02 mg/L	5.79 NTU	10.6 mV	25.19 ft	160.00 ml/min
1/30/2024 10:54 AM	55:00	6.24 pH	16.34 °C	181.10 µS/cm	2.79 mg/L	5.65 NTU	6.5 mV	25.56 ft	160.00 ml/min
1/30/2024 10:59 AM	01:00:00	6.26 pH	16.37 °C	184.88 µS/cm	2.64 mg/L	4.60 NTU	4.0 mV	25.88 ft	160.00 ml/min

1/30/2024 11:04 AM	01:05:00	6.26 pH	16.37 °C	185.07 µS/cm	2.49 mg/L	4.48 NTU	-15.8 mV	26.18 ft	160.00 ml/min
1/30/2024 11:09 AM	01:10:00	6.28 pH	16.42 °C	184.19 µS/cm	2.34 mg/L	3.33 NTU	-1.6 mV	26.41 ft	160.00 ml/min
1/30/2024 11:14 AM	01:15:00	6.27 pH	16.47 °C	185.18 µS/cm	2.23 mg/L	2.83 NTU	-2.5 mV	26.61 ft	150.00 ml/min
1/30/2024 11:19 AM	01:20:00	6.28 pH	16.47 °C	185.60 µS/cm	2.16 mg/L	2.72 NTU	-3.9 mV	26.81 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 12:38:31 PM
Project: McDonough SAGW01 2024
Operator Name: Mark Mann

Location Name: MCD-DGWA-71 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.71 ft** **Total Depth: 47.71 ft** **Initial Depth to Water: 33.13 ft**	**Pump Type: Dedicated Bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 42.71 ft** **Estimated Total Volume Pumped: 5204.167 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.51 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

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	
1/30/2024 12:38 PM	00:00	6.06 pH	19.73 °C	110.58 µS/cm	4.20 mg/L	1.88 NTU	160.9 mV	33.13 ft	250.00 ml/min
1/30/2024 12:43 PM	05:00	5.82 pH	17.10 °C	107.23 µS/cm	1.39 mg/L	2.14 NTU	102.3 mV	33.62 ft	250.00 ml/min
1/30/2024 12:48 PM	10:00	5.81 pH	17.04 °C	106.35 µS/cm	0.94 mg/L	0.49 NTU	144.7 mV	33.63 ft	250.00 ml/min
1/30/2024 12:53 PM	15:00	5.80 pH	16.97 °C	106.69 µS/cm	0.87 mg/L	0.36 NTU	91.1 mV	33.65 ft	250.00 ml/min
1/30/2024 12:58 PM	20:00	5.79 pH	17.04 °C	106.98 µS/cm	0.96 mg/L	0.26 NTU	78.0 mV	33.64 ft	250.00 ml/min
1/30/2024 12:59 PM	20:49	5.79 pH	17.06 °C	107.54 µS/cm	0.97 mg/L	0.26 NTU	70.9 mV	33.64 ft	250.00 ml/min

Samples

Sample ID:	Description:
MCD-DGWA-71	

Low-Flow Test Report:

Test Date / Time: 1/30/2024 11:07:23 AM
Project: Plant McDonough
Operator Name: Daniel Howard

Location Name: MCD-B-90 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 23.4 ft** **Total Depth: 33.4 ft** **Initial Depth to Water: 3.33 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 3500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-90 sample time 1145.

Weather Conditions:
Clear, temp 41 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/30/2024 11:07 AM	00:00	5.56 pH	17.40 °C	464.30 µS/cm	0.80 mg/L	4.80 NTU	101.3 mV	3.33 ft	100.00 ml/min
1/30/2024 11:12 AM	05:00	5.52 pH	16.95 °C	480.74 µS/cm	0.55 mg/L	2.64 NTU	146.9 mV	3.73 ft	100.00 ml/min
1/30/2024 11:17 AM	10:00	5.52 pH	16.99 °C	476.05 µS/cm	0.44 mg/L	2.45 NTU	98.2 mV	3.73 ft	100.00 ml/min
1/30/2024 11:22 AM	15:00	5.51 pH	16.96 °C	482.57 µS/cm	0.40 mg/L	1.59 NTU	89.0 mV	3.73 ft	100.00 ml/min
1/30/2024 11:27 AM	20:00	5.49 pH	17.05 °C	482.82 µS/cm	0.35 mg/L	1.32 NTU	83.1 mV	3.73 ft	100.00 ml/min
1/30/2024 11:32 AM	25:00	5.50 pH	16.91 °C	488.53 µS/cm	0.34 mg/L	1.65 NTU	78.9 mV	3.73 ft	100.00 ml/min
1/30/2024 11:37 AM	30:00	5.50 pH	17.19 °C	489.93 µS/cm	0.32 mg/L	1.91 NTU	75.8 mV	3.73 ft	100.00 ml/min
1/30/2024 11:43 AM	36:00	5.49 pH	17.19 °C	491.88 µS/cm	0.31 mg/L	1.12 NTU	74.7 mV	3.73 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-90	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/30/2024 1:00:24 PM
Project: Plant McDonough (2)
Operator Name: Daniel Howard

Location Name: MCD-B-91 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.6 ft** **Total Depth: 34.6 ft** **Initial Depth to Water: 4.59 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-91 sample time 1332

Weather Conditions:
Clear, Temp 52 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/30/2024 1:00 PM	00:00	5.37 pH	23.02 °C	711.02 µS/cm	1.70 mg/L	0.43 NTU	80.8 mV	4.59 ft	150.00 ml/min
1/30/2024 1:05 PM	05:00	5.35 pH	19.11 °C	760.92 µS/cm	0.33 mg/L	0.85 NTU	87.8 mV	4.82 ft	150.00 ml/min
1/30/2024 1:10 PM	10:00	5.34 pH	18.79 °C	757.49 µS/cm	0.28 mg/L	1.35 NTU	77.2 mV	4.82 ft	150.00 ml/min
1/30/2024 1:15 PM	15:00	5.34 pH	18.66 °C	755.71 µS/cm	0.29 mg/L	0.98 NTU	72.4 mV	4.82 ft	150.00 ml/min
1/30/2024 1:20 PM	20:00	5.34 pH	18.73 °C	748.93 µS/cm	0.32 mg/L	0.83 NTU	71.0 mV	4.82 ft	150.00 ml/min
1/30/2024 1:25 PM	25:00	5.34 pH	18.88 °C	747.07 µS/cm	0.39 mg/L	0.56 NTU	71.8 mV	4.82 ft	150.00 ml/min
1/30/2024 1:30 PM	30:00	5.34 pH	18.78 °C	733.56 µS/cm	0.44 mg/L	0.58 NTU	71.5 mV	4.82 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-91	

Low-Flow Test Report:

Test Date / Time: 1/31/2024 9:43:11 AM
Project: Plant McDonough (4)
Operator Name: Daniel Howard

Location Name: MCD-B-95 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25.16 ft** **Total Depth: 35.16 ft** **Initial Depth to Water: 3.01 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.56 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-95 sample time 1008.

Weather Conditions:
Clear, temp 42 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/31/2024 9:43 AM	00:00	5.40 pH	17.05 °C	469.79 µS/cm	0.48 mg/L	1.58 NTU	121.9 mV	3.01 ft	150.00 ml/min
1/31/2024 9:48 AM	05:00	5.38 pH	16.42 °C	488.16 µS/cm	0.30 mg/L	1.60 NTU	151.3 mV	3.54 ft	150.00 ml/min
1/31/2024 9:53 AM	10:00	5.37 pH	16.44 °C	492.99 µS/cm	0.27 mg/L	0.81 NTU	97.7 mV	3.55 ft	150.00 ml/min
1/31/2024 9:58 AM	15:00	5.37 pH	16.53 °C	492.60 µS/cm	0.25 mg/L	0.74 NTU	121.0 mV	3.55 ft	150.00 ml/min
1/31/2024 10:03 AM	20:00	5.37 pH	16.83 °C	488.50 µS/cm	0.23 mg/L	1.24 NTU	81.7 mV	3.57 ft	150.00 ml/min
1/31/2024 10:08 AM	25:00	5.37 pH	16.89 °C	481.70 µS/cm	0.20 mg/L	1.22 NTU	75.3 mV	3.57 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-95	

Low-Flow Test Report:

Test Date / Time: 1/30/2024 2:35:14 PM
Project: Plant McDonough (3)
Operator Name: Daniel Howard

Location Name: MCD-B-96 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.33 ft** **Total Depth: 32.33 ft** **Initial Depth to Water: 6.22 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 27 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-96 sample time 1502.

Weather Conditions:
Clear, temp 57 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/30/2024 2:35 PM	00:00	5.22 pH	22.51 °C	1,006.0 µS/cm	0.71 mg/L	1.86 NTU	78.0 mV	6.22 ft	150.00 ml/min
1/30/2024 2:40 PM	05:00	5.24 pH	19.81 °C	1,040.2 µS/cm	0.27 mg/L	0.76 NTU	83.8 mV	6.44 ft	150.00 ml/min
1/30/2024 2:45 PM	10:00	5.24 pH	19.68 °C	1,040.0 µS/cm	0.21 mg/L	0.70 NTU	77.5 mV	6.45 ft	150.00 ml/min
1/30/2024 2:50 PM	15:00	5.23 pH	19.67 °C	1,040.9 µS/cm	0.18 mg/L	0.98 NTU	75.2 mV	6.45 ft	150.00 ml/min
1/30/2024 2:55 PM	20:00	5.23 pH	19.67 °C	1,043.5 µS/cm	0.17 mg/L	0.69 NTU	75.2 mV	6.45 ft	150.00 ml/min
1/30/2024 3:00 PM	25:00	5.23 pH	19.70 °C	1,040.6 µS/cm	0.16 mg/L	0.49 NTU	73.0 mV	6.45 ft	150.00 ml/min

Samples

Sample ID:	Description:
MCD-B-96	

Low-Flow Test Report:

Test Date / Time: 1/31/2024 11:24:31 AM
Project: Plant McDonough (5)
Operator Name: Daniel Howard

Location Name: MCD-B-99 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 6.93 ft** **Total Depth: 11.93 ft** **Initial Depth to Water: 3.21 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 9 ft** **Estimated Total Volume Pumped: 16801.666 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.38 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080300**

Test Notes:
MCD-B-99 sample time 1413.

Weather Conditions:
Clear, temp 46 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
1/31/2024 11:24 AM	00:00	5.59 pH	16.37 °C	458.75 µS/cm	2.66 mg/L	237.00 NTU	87.3 mV	3.21 ft	100.00 ml/min
1/31/2024 11:29 AM	05:00	5.72 pH	14.68 °C	483.58 µS/cm	0.46 mg/L	193.00 NTU	85.7 mV	3.55 ft	100.00 ml/min
1/31/2024 11:36 AM	11:57	5.72 pH	15.20 °C	487.38 µS/cm	0.34 mg/L	158.00 NTU	51.0 mV	3.55 ft	100.00 ml/min
1/31/2024 11:37 AM	13:01	5.69 pH	15.15 °C	478.53 µS/cm	0.32 mg/L	158.00 NTU	67.7 mV	3.56 ft	100.00 ml/min
1/31/2024 11:42 AM	18:01	5.74 pH	15.12 °C	482.94 µS/cm	0.28 mg/L	128.00 NTU	114.0 mV	3.56 ft	100.00 ml/min
1/31/2024 11:47 AM	23:01	5.72 pH	15.15 °C	479.45 µS/cm	0.26 mg/L	106.00 NTU	81.0 mV	3.57 ft	100.00 ml/min
1/31/2024 11:52 AM	28:01	5.70 pH	15.50 °C	474.30 µS/cm	0.25 mg/L	92.90 NTU	78.9 mV	3.57 ft	100.00 ml/min
1/31/2024 11:57 AM	33:01	5.75 pH	15.82 °C	473.06 µS/cm	0.57 mg/L	88.60 NTU	75.2 mV	3.57 ft	100.00 ml/min
1/31/2024 12:02 PM	38:01	5.74 pH	15.58 °C	477.03 µS/cm	0.25 mg/L	69.80 NTU	111.4 mV	3.57 ft	100.00 ml/min
1/31/2024 12:07 PM	43:01	5.74 pH	15.32 °C	476.29 µS/cm	0.24 mg/L	61.50 NTU	74.7 mV	3.57 ft	100.00 ml/min
1/31/2024 12:12 PM	48:01	5.75 pH	15.61 °C	469.60 µS/cm	0.22 mg/L	58.30 NTU	71.4 mV	3.57 ft	100.00 ml/min
1/31/2024 12:17 PM	53:01	5.72 pH	15.32 °C	471.47 µS/cm	0.37 mg/L	53.60 NTU	67.8 mV	3.57 ft	100.00 ml/min
1/31/2024 12:22 PM	58:01	5.75 pH	15.39 °C	477.79 µS/cm	0.24 mg/L	44.60 NTU	61.7 mV	3.59 ft	100.00 ml/min

1/31/2024 12:27 PM	01:03:01	5.75 pH	15.66 °C	470.83 µS/cm	0.23 mg/L	40.10 NTU	61.7 mV	3.59 ft	100.00 ml/min
1/31/2024 12:32 PM	01:08:01	5.75 pH	15.59 °C	469.85 µS/cm	0.22 mg/L	35.80 NTU	57.1 mV	3.59 ft	100.00 ml/min
1/31/2024 12:37 PM	01:13:01	5.73 pH	15.25 °C	471.76 µS/cm	0.22 mg/L	33.30 NTU	56.6 mV	3.59 ft	100.00 ml/min
1/31/2024 12:42 PM	01:18:01	5.75 pH	15.68 °C	467.86 µS/cm	0.21 mg/L	29.70 NTU	54.3 mV	3.59 ft	100.00 ml/min
1/31/2024 12:47 PM	01:23:01	5.71 pH	15.85 °C	472.48 µS/cm	0.47 mg/L	27.00 NTU	46.9 mV	3.59 ft	100.00 ml/min
1/31/2024 12:52 PM	01:28:01	5.70 pH	15.72 °C	466.61 µS/cm	0.23 mg/L	23.00 NTU	70.2 mV	3.59 ft	100.00 ml/min
1/31/2024 12:57 PM	01:33:01	5.72 pH	15.96 °C	459.01 µS/cm	0.21 mg/L	19.60 NTU	53.9 mV	3.59 ft	100.00 ml/min
1/31/2024 1:02 PM	01:38:01	5.73 pH	16.28 °C	461.30 µS/cm	0.21 mg/L	18.90 NTU	48.7 mV	3.59 ft	100.00 ml/min
1/31/2024 1:07 PM	01:43:01	5.73 pH	16.60 °C	460.76 µS/cm	0.20 mg/L	17.40 NTU	43.7 mV	3.59 ft	100.00 ml/min
1/31/2024 1:12 PM	01:48:01	5.71 pH	16.44 °C	454.49 µS/cm	0.19 mg/L	14.80 NTU	43.3 mV	3.59 ft	100.00 ml/min
1/31/2024 1:17 PM	01:53:01	5.74 pH	16.58 °C	454.98 µS/cm	0.19 mg/L	13.50 NTU	43.0 mV	3.59 ft	100.00 ml/min
1/31/2024 1:22 PM	01:58:01	5.71 pH	16.73 °C	456.67 µS/cm	0.19 mg/L	12.20 NTU	40.6 mV	3.59 ft	100.00 ml/min
1/31/2024 1:27 PM	02:03:01	5.72 pH	16.97 °C	453.59 µS/cm	0.19 mg/L	10.90 NTU	41.7 mV	3.59 ft	100.00 ml/min
1/31/2024 1:32 PM	02:08:01	5.75 pH	17.19 °C	453.11 µS/cm	0.19 mg/L	9.85 NTU	41.0 mV	3.59 ft	100.00 ml/min
1/31/2024 1:37 PM	02:13:01	5.75 pH	17.27 °C	453.12 µS/cm	0.19 mg/L	8.72 NTU	38.8 mV	3.59 ft	100.00 ml/min
1/31/2024 1:42 PM	02:18:01	5.71 pH	17.18 °C	452.93 µS/cm	0.19 mg/L	7.12 NTU	40.5 mV	3.59 ft	100.00 ml/min
1/31/2024 1:47 PM	02:23:01	5.72 pH	17.37 °C	450.58 µS/cm	0.19 mg/L	7.03 NTU	39.9 mV	3.59 ft	100.00 ml/min
1/31/2024 1:52 PM	02:28:01	5.71 pH	17.43 °C	450.17 µS/cm	0.19 mg/L	5.99 NTU	39.2 mV	3.59 ft	100.00 ml/min
1/31/2024 1:57 PM	02:33:01	5.73 pH	17.64 °C	454.20 µS/cm	0.19 mg/L	5.63 NTU	34.9 mV	3.59 ft	100.00 ml/min
1/31/2024 2:02 PM	02:38:01	5.76 pH	17.63 °C	455.66 µS/cm	0.19 mg/L	5.28 NTU	33.8 mV	3.59 ft	100.00 ml/min
1/31/2024 2:07 PM	02:43:01	5.75 pH	17.67 °C	455.39 µS/cm	0.18 mg/L	4.40 NTU	30.2 mV	3.59 ft	100.00 ml/min
1/31/2024 2:13 PM	02:49:01	5.76 pH	17.63 °C	456.30 µS/cm	0.19 mg/L	4.35 NTU	29.4 mV	3.59 ft	100.00 ml/min

Samples

Sample ID:	Description:
MCD-B-99	

APPENDIX A

Instrument Calibration Records
September 2023

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/6

Calibrated By: D. Bloomfield

Field Conditions: Sunny, 80°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread	983553
Turbidity Meter	2100Q IntelliCAL	22090D0082 39

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000094	5/24	AIR
pH (SU)	4.00	"	"	
pH (SU)	7.00	22290139	04/24	
pH (SU)	10.00	22110130	04/24	
D.O. (%)	N/A	24000044	05/24	
ORP (mV)	228.0	24002258	06/24	

Calibration					
Time Start 0750			Time Finish 0815		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4185.5	22.04	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	22.19	± 0.1	GWMP
pH (SU)	7.00	6.95	22.51	± 0.1	GWMP
pH (SU)	10.00	10.31	22.98	± 0.1	GWMP
D.O. (%)	N/A	98.86	22.04	± 10%	NA
ORP (mV)	228.0	226.6	22.82	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	98.4		
	800	801		
	10	10.3		

Calibration Check					
Time Start 1521			Time Finish 1530		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4320.6	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	37.15	± 0.1	GWMP
pH (SU)	7.00	7.03	34.85	± 0.1	GWMP
pH (SU)	10.00	9.94	34.77	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	98.7		
	800	793		
	10	9.05		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/7/23

Calibrated By: D. Bloomfield

Field Conditions: Sunny, 80°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaprobe	883553
Turbidity Meter	2100QHACH	22090D000239

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

same as previous

Calibration					
Time Start 0855		**Time Finish** 0910			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4572.3	25.16	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	25.14	± 0.1	GWMP
pH (SU)	7.00	6.96	26.44	± 0.1	GWMP
pH (SU)	10.00	9.95	27.37	± 0.1	GWMP
D.O. (%)	N/A	96.57	25.15	± 10%	NA
ORP (mV)	228.0	219.1	27.75	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	18.0	± 10% of standard	EPA 2023
	100	90.2		
	800	812		
	10	9.77		

Calibration Check					
Time Start 1730		**Time Finish** 1745			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4654.3	34.50	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	35.18	± 0.1	GWMP
pH (SU)	7.00	6.98	35.03	± 0.1	GWMP
pH (SU)	10.00	9.92	35.18	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.6	± 10% of standard	EPA 2023
	100	100		
	800	807		
	10	10.6		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/8

Calibrated By: D. Bicomfield

Field Conditions: 65° sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	885553
Turbidity Meter	HACH 2100Q	22090000739

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400044	5/24	YSI
pH (SU)	4.00	"	"	"
pH (SU)	7.00	22200139	4/24	"
pH (SU)	10.00	22110132	4/24	"
D.O. (%)	N/A	2400044	5/24	"
ORP (mV)	228.0	24002258	6/24	"

Calibration					
Time Start 0745			Time Finish 0800		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4366.9	24.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	24.03	± 0.1	GWMP
pH (SU)	7.00	7.01	24.44	± 0.1	GWMP
pH (SU)	10.00	9.99	25.06	± 0.1	GWMP
D.O. (%)	N/A	99.7	24.65	± 10%	NA
ORP (mV)	228.0	228.8	24.61	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	22.2	± 10% of standard	EPA 2023
	100	104		
	800	802		
	10	9.7		

Calibration Check					
Time Start			Time Finish		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes: Last sample before 12pm - no cal check

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/12/23

Calibrated By: D. Bloomfield

Field Conditions: sunny, 80°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Quadrell	883553
Turbidity Meter	HACH 2100Q	22090D00239

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400044	5/24	AIR
pH (SU)	4.00	"	"	
pH (SU)	7.00	22200139	4/24	
pH (SU)	10.00	22110130	4/24	
D.O. (%)	N/A	2400044	5/24	
ORP (mV)	228.0	2400 2258	6/24	

Calibration					
Time Start 810		Time Finish 0825			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4606.5	25.87	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	25.82	± 0.1	GWMP
pH (SU)	7.00	6.98	26.42	± 0.1	GWMP
pH (SU)	10.00	9.96	26.32	± 0.1	GWMP
D.O. (%)	N/A	103.99	25.82	± 10%	NA
ORP (mV)	228.0	225.3	27.06	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	97.6		
	800	796		
	10	10.1		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes: pumped on same well from 10 am ~ 3:30 pm, no cal check

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 2/13/23

Calibrated By: D. Bloomfield

Field Conditions: Rainy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUA TROLL	803555
Turbidity Meter	HACH 2100Q	22040D002349

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400044	5/24	YSI
pH (SU)	4.00	1,	"	"
pH (SU)	7.00	22001139	4/24	"
pH (SU)	10.00	22101130	4/24	"
D.O. (%)	N/A	2400044	5/24	"
ORP (mV)	228.0	24002258	6/24	"

Calibration					
Time Start 0805		Time Finish 0820			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4376.2	24.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.42	± 0.1	GWMP
pH (SU)	7.00	6.98	24.82	± 0.1	GWMP
pH (SU)	10.00	10.05	24.96	± 0.1	GWMP
D.O. (%)	N/A	98.00	25.06	± 10%	NA
ORP (mV)	228.0	230.5	24.96	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.1	± 10% of standard	EPA 2023
	100	100		
	900	785		
	10	9.86		

Calibration Check					
Time Start 1503		Time Finish 1515			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4474.8	29.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	29.70	± 0.1	GWMP
pH (SU)	7.00	6.99	29.13	± 0.1	GWMP
pH (SU)	10.00	9.94	28.63	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	107		
	800	817		
	10	9.41		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 09/06/23

Calibrated By: P Wani

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUAREOII 400	980712
Turbidity Meter	HACH 2100Q	22090000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000414	05/2024	Atlanta Instrument Rentals (AIR)
pH (SU)	4.00	24000414	05/2024	AIR
pH (SU)	7.00	22290139	04/2024	AIR
pH (SU)	10.00	2132 0202	12/2023	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	21390144	11/2023	AIR

Calibration					
Time Start 0757		Time Finish 0820			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4225.6	24.63	± 10% of standard	EPA 2023
pH (SU)	4.00	PW ~~4.04~~ 4.10	PW ~~24.69~~ 25.27	± 0.1	GWMP
pH (SU)	7.00	PW ~~6.98~~ 6.99	PW ~~25.24~~ 25.27	± 0.1	GWMP
pH (SU)	10.00	9.99	25.41	± 0.1	GWMP
D.O. (%)	N/A	106.70	24.96	± 10%	NA
ORP (mV)	228.0	221.2	25.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	100		
	800	715		
	10	9.73		

Calibration Check					
Time Start ~~0~~ 1350		Time Finish 1410			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4450.6	40.48	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	40.50	± 0.1	GWMP
pH (SU)	7.00	6.98	38.47	± 0.1	GWMP
pH (SU)	10.00	9.93	36.60	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.74	± 10% of standard	EPA 2023

Notes:

Field Instrumentation Calibration Form

Site Name: Plant McDonough 4 Date: 09/07/23

Calibrated By: P Wani Field Conditions: Sunny 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 400	980712
Turbidity Meter	HACH 2100Q	22090000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	21000044	05/2024	Atlanta Instrument Rental (AIR)
pH (SU)	4.00	24000044	05/2024	AIR
pH (SU)	7.00	22290139	04/2024	AIR
pH (SU)	10.00	21320202	12/2023	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	21390144	11/2023	AIR

Calibration					
Time Start ~~0935~~ 0800		Time Finish 0830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4477.7	27.82	± 10% of standard	EPA 2023
pH (SU)	4.00	PW ~~4.00~~ 4.04	PW ~~27.90~~ 26.41	± 0.1	GWMP
pH (SU)	7.00	6.99	26.59	± 0.1	GWMP
pH (SU)	10.00	10.00	26.17	± 0.1	GWMP
D.O. (%)	N/A	99.91	PW ~~27~~ 26.56	± 10%	NA
ORP (mV)	228.0	223.9	27.26	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.4	± 10% of standard	EPA 2023
	100	104		
	~~800~~	807		
	10	9.85		

Calibration Check					
Time Start 1500		Time Finish 1515			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4556.3	37.59	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	37.90	± 0.1	GWMP
pH (SU)	7.00	7.00	36.31	± 0.1	GWMP
pH (SU)	10.00	9.95	34.62	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.73	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 09/08/23

Calibrated By: P Wahl

Field Conditions: Sunny 65°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatrol 400	980712
Turbidity Meter	HACH 2100 Q	22090000096

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	Atlanta Instrument Rentals (AIR)
pH (SU)	4.00	24000044	05/2024	AIR
pH (SU)	7.00	22290039	01/2024	AIR
pH (SU)	10.00	21320202	12/2023	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	21390144	11/2023	AIR

Calibration

Time Start 0800 Time Finish 0830

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4407.8	25.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	25.24	± 0.1	GWMP
pH (SU)	7.00	6.97	25.05	± 0.1	GWMP
pH (SU)	10.00	9.96	25.44	± 0.1	GWMP
D.O. (%)	N/A	100.31	23.83	± 10%	NA
ORP (mV)	228.0	230.1	25.64	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.6	± 10% of standard	EPA 2023
	100	99.3		
	800	800		
	10	9.40		

Calibration Check

Time Start 1251 Time Finish 1300

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	36.54	± 0.1	GWMP
pH (SU)	7.00	6.99	34.21	± 0.1	GWMP
pH (SU)	10.00	9.94	32.06	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/11/23

Calibrated By: P Wahl

Field Conditions: Sunny 68°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	980712
Turbidity Meter	HACH 2100Q	22090000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	Atlanta Instrument Rentals (AIR)
pH (SU)	4.00	24000044	05/2024	AIR
pH (SU)	7.00	22290139	04/2024	AIR
pH (SU)	10.00	21320202	12/2023	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	21390149	11/2023	AIR

Calibration					
Time Start 0749			Time Finish 0805		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4464.7	22.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.01	± 0.1	GWMP
pH (SU)	7.00	7.01	22.04	± 0.1	GWMP
pH (SU)	10.00	9.99	22.08	± 0.1	GWMP
D.O. (%)	N/A	99.04	21.82	± 10%	NA
ORP (mV)	228.0	233.8	22.05	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	787		
	10	9.69		

Calibration Check					
Time Start 1253			Time Finish		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4466.6	40.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	40.12	± 0.1	GWMP
pH (SU)	7.00	7.00	37.64	± 0.1	GWMP
pH (SU)	10.00	9.96	34.92	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.70	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/12/23

Calibrated By: P Wahl

Field Conditions: Sunny 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	480712
Turbidity Meter	HACH 2100Q	22090000008

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	Atlanta Instrument Rentals (AIR)
pH (SU)	4.00	24000044	05/2024	AIR
pH (SU)	7.00	22290139	04/2024	AIR
pH (SU)	10.00	21320202	12/2023	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	21390144	11/2023	AIR

Calibration					
Time Start 0740		Time Finish 0800			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductanse (µS/cm)	4,490	4513.5	21.32	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.32	± 0.1	GWMP
pH (SU)	7.00	6.95	24.22	± 0.1	GWMP
pH (SU)	10.00	10.00	25.16	± 0.1	GWMP
D.O. (%)	N/A	101.44	24.62	± 10%	NA
ORP (mV)	228.0	221.9	25.18	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	101		
	800	803		
	10	9.74		

Calibration Check					
Time Start 1245		Time Finish 1250			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4648.1	32.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	34.06	± 0.1	GWMP
pH (SU)	7.00	7.05	33.99	± 0.1	GWMP
pH (SU)	10.00	9.98	33.05	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.45	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/13/23

Calibrated By: P Wahl

Field Conditions: Cloudy 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 400	480712
Turbidity Meter	HACH 2100Q	22090000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	Atlanta Instrument Rentals (AIR)
pH (SU)	4.00	24000414	05/2024	AIR
pH (SU)	7.00	22290139	04/2024	AIR
pH (SU)	10.00	21320202	12/2023	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	23901447	11/2023	AIR

Calibration					
Time Start 0815		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4455.1	22.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.79	± 0.1	GWMP
pH (SU)	7.00	6.98	23.45	± 0.1	GWMP
pH (SU)	10.00	10.01	23.88	± 0.1	GWMP
D.O. (%)	N/A	98.30	23.75	± 10%	NA
ORP (mV)	228.0	229.5	24.04	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.70	± 10% of standard	EPA 2023
	20	19.8		
	100	99.7		
	800	787		

Calibration Check					
Time Start 1358		Time Finish 1405			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4444.0	32.90	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	32.79	± 0.1	GWMP
pH (SU)	7.00	7.06	31.20	± 0.1	GWMP
pH (SU)	10.00	9.97	30.49	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.54	± 10% of standard	EPA 2023

Notes:

Site Name: PLANT MCDONOUGH

Field Instrumentation Calibration Form

Date: 09/06/23

Calibrated By: M. MANN

Field Conditions: NOMINAL

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	965586
Turbidity Meter	HACH 2100Q	12050C017705

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	AIR
pH (SU)	4.00	24000044	05/2024	"
pH (SU)	7.00	22901139	04/2024	"
pH (SU)	10.00	22110130	04/2024	"
D.O. (%)	N/A	/	/	"
ORP (mV)	228.0	24002258	06/2024	"

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4158.8	24.84	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	25.02	± 0.1	GWMP
pH (SU)	7.00	AM ~~6.92~~ ~~7.07~~	25.28	± 0.1	GWMP
pH (SU)	10.00	10.00	25.82	± 0.1	GWMP
D.O. (%)	N/A	106.6	25.89	± 10%	NA
ORP (mV)	228.0	223.5	25.75	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	19.8	20	± 10% of standard	EPA 2023
	101	100		
	792	800		
	9.87	10		

Calibration Check					
Time Start 1230		Time Finish 12.37			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4095.5	32.04	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	32.04	± 0.1	GWMP
pH (SU)	7.00	6.97	32.17	± 0.1	GWMP
pH (SU)	10.00	9.93	32.49	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	19.5		
	100	105		
	800	781		

Notes:

Site Name: PLANT MCDONOUGH

Field Instrumentation Calibration Form

Date: 09/07/23

Calibrated By: M. MANN

Field Conditions: GOOD

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	965586
Turbidity Meter	HACH 2100Q	12050C017705

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24000044	05/2024	AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	2290139	04/2024	
pH (SU)	10.00	22110130	04/2024	
D.O. (%)	N/A	/	/	
ORP (mV)	228.0	24002258	06/2024	

Calibration					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4227.5	23.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	23.24	± 0.1	GWMP
pH (SU)	7.00	6.92	23.92	± 0.1	GWMP
pH (SU)	10.00	9.97	24.42	± 0.1	GWMP
D.O. (%)	N/A	99.12	25.52	± 10%	NA
ORP (mV)	228.0	230.7	24.62	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	99.8		
	800	801		
	10	9.84		

Calibration Check					
Time Start 1251		**Time Finish** 1255			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4429.2	31.28	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	31.28	± 0.1	GWMP
pH (SU)	7.00	7.01	31.46	± 0.1	GWMP
pH (SU)	10.00	9.93	30.54	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.9		
	100	109		
	800	795		

Notes:

Site Name: PLANT MCDONOUGH

Field Instrumentation Calibration Form

Date: 09/08/23

Calibrated By: M. MANN

Field Conditions: GOOD

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AQUATROLL	965586
Turbidity Meter	HACH 2100D	120500017705

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	2290139	~~2290139~~ 04/2024	
pH (SU)	10.00	22110130	04/2024	
D.O. (%)	N/A			
ORP (mV)	228.0	24002258	06/2024	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4318.3	22.68	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	22.68	± 0.1	GWMP
pH (SU)	7.00	6.98	23.47	± 0.1	GWMP
pH (SU)	10.00	9.96	23.62	± 0.1	GWMP
D.O. (%)	N/A	98.40	22.08	± 10%	NA
ORP (mV)	228.0	228.1	23.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	101		
	800	798		
	10	10.2		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: PLANT MCDONOUGH **Field Instrumentation Calibration Form** Date: 09/11/23

Calibrated By: M. MANN Field Conditions: GOOD

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AQuaTroll	965586
Turbidity Meter	HACH 2100Q	12050C017705

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	2290139	04/2024	
pH (SU)	10.00	22110130	04/2024	
D.O. (%)	N/A	/	/	
ORP (mV)	228.0	24002258	06/2024	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4341.7	22.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.98	± 0.1	GWMP
pH (SU)	7.00	7.01	23.13	± 0.1	GWMP
pH (SU)	10.00	10.06	23.29	± 0.1	GWMP
D.O. (%)	N/A	100.16	23.25	± 10%	NA
ORP (mV)	228.0	228.0	23.38	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.9	± 10% of standard	EPA 2023
	100	105		
	800	823		
	10	9.94		

Calibration Check					
Time Start	1258	Time Finish	1304		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4243.0	33.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	33.81	± 0.1	GWMP
pH (SU)	7.00	7.05	32.55	± 0.1	GWMP
pH (SU)	10.00	9.92	33.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.32	± 10% of standard	EPA 2023
	20	19.8		
	100	94.1		
	800	788		

Notes:

Site Name: PLANT McDONOUGH

Field Instrumentation Calibration Form

Date: 9/12/23

Calibrated By: M. MANN

Field Conditions: GOOD

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI-556 AQUATROLL	965586
Turbidity Meter	HACH 2100Q	12050C017705

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	AII
pH (SU)	4.00	24000044	05/2024	↓
pH (SU)	7.00	~~22110130~~	04/2024	↓
pH (SU)	10.00	22110130	04/2024	↓
D.O. (%)	N/A	/	/	↓
ORP (mV)	228.0	24002258	06/2024	↓

LOT # 22110134

Calibration					
Time Start 910		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4584.4	24.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	24.12	± 0.1	GWMP
pH (SU)	7.00	6.98	25.00	± 0.1	GWMP
pH (SU)	10.00	9.91	25.55	± 0.1	GWMP
D.O. (%)	N/A	104.05	25.32	± 10%	NA
ORP (mV)	228.0	223.5	25.59	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	22.0	± 10% of standard	EPA 2023
	100	109		
	800	822		
	10	9.86		

Calibration Check					
Time Start 1447		Time Finish 1451			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4435.4	32.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	↓	± 0.1	GWMP
pH (SU)	7.00	7.00	32.06	± 0.1	GWMP
pH (SU)	10.00	9.94	31.48	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.5	± 10% of standard	EPA 2023
	20	20.1		
	800	746		
	100	93.2		

Notes:

Site Name: PLANT McDONOUGH **Field Instrumentation Calibration Form** Date: 9/13/23

Calibrated By: M. MANN Field Conditions: GOOD

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUATROLL	965586
Turbidity Meter	HACH 2100Q	~~[illegible]~~ 22090D000235 MM

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	05/2024	AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	2290139	04/2024	
pH (SU)	10.00	22110130	04/2024	
D.O. (%)	N/A	✓	✓	✓
ORP (mV)	228.0	24002258	06/2024	

Calibration					
Time Start 855		Time Finish 913			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4368.8	24.06	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	24.55	± 0.1	GWMP
pH (SU)	7.00	6.96	24.86	± 0.1	GWMP
pH (SU)	10.00	9.98	25.21	± 0.1	GWMP
D.O. (%)	N/A	98.42	~~24.91~~	± 10%	NA
ORP (mV)	228.0	225.4	~~225.4~~ 25.42 MM	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	99.7		
	800	797		
	10	9.79		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4383.4	33.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	↓	± 0.1	GWMP
pH (SU)	7.00	7.01	32.36	± 0.1	GWMP
pH (SU)	10.00	9.91	31.37	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.7		
	80	79.3		
	100	790		

Notes:

Site Name: PLANT MCDONOUGH **Field Instrumentation Calibration Form** Date: 9/14/23

Calibrated By: M. MANN Field Conditions: GOOD

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUATROLL	965586
Turbidity Meter	HACH 2100Q	22090D000234

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000444	05/2024	AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	2290139	04/2024	
pH (SU)	10.00	22110130	04/2024	
D.O. (%)	N/A	/	/	
ORP (mV)	228.0	24002258	06/2024	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4360.7	23.66	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	23.70	± 0.1	GWMP
pH (SU)	7.00	6.98	24.51	± 0.1	GWMP
pH (SU)	10.00	9.93	25.14	± 0.1	GWMP
D.O. (%)	N/A	99.28	24.51	± 10%	NA
ORP (mV)	228.0	219.4	25.14	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	101		
	800	805		
	10	9.84		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 9/7/23

Calibrated By: Daniel Howard

Field Conditions: Clear + Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	Hach 2100 Q	23060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	5/24	AIR
pH (SU)	4.00	24000044	5/24	↓
pH (SU)	7.00	22290139	4/24	↓
pH (SU)	10.00	22110130	4/24	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	24.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.47	± 0.1	GWMP
pH (SU)	7.00	7.00	24.56	± 0.1	GWMP
pH (SU)	10.00	10.00	24.65	± 0.1	GWMP
D.O. (%)	N/A	7.44	23.23	± 10%	NA
ORP (mV)	228.0	229.7	24.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	101		
	800	803		
CK std →	10	10.1		

Calibration Check					
Time Start	1301 ~~131~~	Time Finish	1315		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4.53	31.44	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	31.43	± 0.1	GWMP
pH (SU)	7.00	7.03	31.47	± 0.1	GWMP
pH (SU)	10.00	9.96	31.48	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 9/8/23

Field Conditions: Partly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	Hach 2100 Q	23060D000298

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	5/24	AIA
pH (SU)	4.00	24000044	5/24	↓
pH (SU)	7.00	22290139	4/24	↓
pH (SU)	10.00	22110130	4/24	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.48	± 0.1	GWMP
pH (SU)	7.00	7.00	23.63	± 0.1	GWMP
pH (SU)	10.00	10.00	23.72	± 0.1	GWMP
D.O. (%)	N/A 7.70	~~231.1740~~	20.96	± 10%	NA
ORP (mV)	228.0	231.1	23.51	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	99.7		
	800	802		
ck std	10	10.2		

Calibration Check					
Time Start	1140	Time Finish	1155		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4440	24.89	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	24.98	± 0.1	GWMP
pH (SU)	7.00	7.02	24.96	± 0.1	GWMP
pH (SU)	10.00	9.98	24.71	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ck std	10	10.2	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 9/11/23

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	Hach 2100Q	23060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000074	5/24	AIR
pH (SU)	4.00	24000044	5/24	↓
pH (SU)	7.00	22290139	4/24	↓
pH (SU)	10.00	22110130	4/24	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.48	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.53	± 0.1	GWMP
pH (SU)	7.00	7.00	23.57	± 0.1	GWMP
pH (SU)	10.00	10.00	23.66	± 0.1	GWMP
D.O. (%)	N/A	7.40	23.25	± 10%	NA
ORP (mV)	228.0	231.0	23.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	99.6		
	800	804		
ck std	10	10.2		

Calibration Check					
Time Start	1208	Time Finish	1220		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	28.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	28.34	± 0.1	GWMP
pH (SU)	7.00	7.07	27.30	± 0.1	GWMP
pH (SU)	10.00	9.96	27.29	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ck std	10	10.2	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 9/12/23

Field Conditions: Partly ~~Cloud~~ Sunny OH

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850251
Turbidity Meter	Hach 2100Q	23060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	5/24	AIR
pH (SU)	4.00	24000044	5/24	↓
pH (SU)	7.00	22290139	4/24	↓
pH (SU)	10.00	22110130	4/24	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.55	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.90	± 0.1	GWMP
D.O. (%)	N/A	7.45	23.11	± 10%	NA
ORP (mV)	228.0	229.5	24.71	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	792		
ckstd	10	10.3		

Calibration Check					
Time Start	1155	Time Finish	1205		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4430	30.44	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	30.62	± 0.1	GWMP
pH (SU)	7.00	7.00	29.76	± 0.1	GWMP
pH (SU)	10.00	9.94	29.45	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ckstd	10	10.2	± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 9/13/23

Field Conditions: Overcast

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	Hach 2100 Q	13060D000290

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24000044	5/24	AIR
pH (SU)	4.00	24000044	5/24	↓
pH (SU)	7.00	22290139	4/24	↓
pH (SU)	10.00	22110130	4/24	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.84	± 0.1	GWMP
pH (SU)	7.00	7.00	23.92	± 0.1	GWMP
pH (SU)	10.00	10.00	24.02	± 0.1	GWMP
D.O. (%)	N/A	7.57	22.00	± 10%	NA
ORP (mV)	228.0	230.2	24.15	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	99.4		
	800	802		
ckstd	10	10.2		

Calibration Check					
Time Start	1305	Time Finish	1317		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4430	27.19	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	27.23	± 0.1	GWMP
pH (SU)	7.00	7.00	27.36	± 0.1	GWMP
pH (SU)	10.00	9.97	28.05	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ckstd	10	10.1	± 10% of standard	EPA 2023

Notes:

APPENDIX A

Instrument Calibration Records January-February 2024

Site Name: McDONOUGH

Field Instrumentation Calibration Form

Date: 01/30/24

Calibrated By: M-MANN

Field Conditions: 43°F CLR

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU 4 QUATROLL	1080293
Turbidity Meter	HACK 2100Q	14080C03447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AIR
pH (SU)	4.00	24005593	11/24	
pH (SU)	7.00	24003597	11/24	
pH (SU)	10.00	24004996	11/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	11/24	

Calibration					
Time Start 1115		Time Finish 1200			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4488.7	8.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	8.67	± 0.1	GWMP
pH (SU)	7.00	~~6.92~~ 7.02	7.90	± 0.1	GWMP
pH (SU)	10.00	10.06	8.92	± 0.1	GWMP
D.O. (%)	N/A	115.00	12.7	± 10%	NA
ORP (mV)	228.0	241.2	~~[illegible]~~ 8.80	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.74	± 10% of standard	EPA 2023
	20	21.1		
	100	101		
	800	815		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4818.8	16.87	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	16.37	± 0.1	GWMP
pH (SU)	7.00	7.09	14.83	± 0.1	GWMP
pH (SU)	10.00	10.06	13.74	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.8		
	800	813 ~~[illegible]~~		
	100	99.2		

Notes:

Site Name: MCDONOUGH

Field Instrumentation Calibration Form

Date: 01/31/24

Calibrated By: MDM

Field Conditions: 41°F CLR

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1080293
Turbidity Meter	Hach 2100Q	14080C03447

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AIR
pH (SU)	4.00	24005593	11/24	↓
pH (SU)	7.00	24005597	11/24	↓
pH (SU)	10.00	24004996	11/24	↓
D.O. (%)	N/A	—	—	↓
ORP (mV)	228.0	24006903	11/24	✓

Calibration

Time Start: 0930 Time Finish: 1015

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4496.2	14.40	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	14.24	± 0.1	GWMP
pH (SU)	7.00	6.95	13.81	± 0.1	GWMP
pH (SU)	10.00	10.00	13.55	± 0.1	GWMP
D.O. (%)	N/A	95.03	12.67	± 10%	NA
ORP (mV)	228.0	221.2	13.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.97	± 10% of standard	EPA 2023
	20	19.3		
	100	96.6		
	800	798		

Calibration Check

Time Start: 1620 Time Finish: 1630

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4139.8	17.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	17.56	± 0.1	GWMP
pH (SU)	7.00	7.01	17.16	± 0.1	GWMP
pH (SU)	10.00	9.98	17.36	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.0		
	100	102		
	800	775		

Notes:

Site Name: MCDONOUGH

Field Instrumentation Calibration Form

Date: 02/01/24

Calibrated By: M. MANN

Field Conditions: 31°/57°F CLR

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU AQUATROLL	1080293
Turbidity Meter	HACH 2100Q	14080C034447

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AER
pH (SU)	4.00	24005593	11/24	↓
pH (SU)	7.00	24003597	11/24	↓
pH (SU)	10.00	24004906	11/24	↓
D.O. (%)	N/A	—	—	↓
ORP (mV)	228.0	24006403	11/24	↓

Calibration

Time Start 0900 Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4567.7	10.7	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	8.35	± 0.1	GWMP
pH (SU)	7.00	6.92	8.59	± 0.1	GWMP
pH (SU)	10.00	9.89	8.78	± 0.1	GWMP
D.O. (%)	N/A	101.68	7.98	± 10%	NA
ORP (mV)	228.0	235.2	8.92	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.72	± 10% of standard	EPA 2023
	20	19.0		
	100	105		
	800	809		

Calibration Check

Time Start ~~1620~~ 1518 Time Finish 1630

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4486.9	17.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	17.99	± 0.1	GWMP
pH (SU)	7.00	7.04	18.25	± 0.1	GWMP
pH (SU)	10.00	10.05	17.70	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.6	± 10% of standard	EPA 2023
	20	21.1		
	100	97.9		
	800	764		

Notes:

Site Name: MCDONOUGH

Field Instrumentation Calibration Form

Date: 02/02/24

Calibrated By: M. MANN

Field Conditions:

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	EN-SITU AQUAPROBE	10EC293
Turbidity Meter	HACH 2100Q	140800034447

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AER
pH (SU)	4.00	24005593	11/24	↓
pH (SU)	7.00	24003597	11/24	
pH (SU)	10.00	24004996	11/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	11/24	

Calibration

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4389.0	~~9.38~~ 9.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	9.36	± 0.1	GWMP
pH (SU)	7.00	6.97	10.87	± 0.1	GWMP
pH (SU)	10.00	10.00	11.71	± 0.1	GWMP
D.O. (%)	N/A	99.8	11.25	± 10%	NA
ORP (mV)	228.0	222.8	12.06	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.40	± 10% of standard	EPA 2023
	20	21.6		
	100	99.5		
	800	~~796~~		

Calibration Check

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: MCDONOUGH

Field Instrumentation Calibration Form

Date: 02/05/24

Calibrated By: MDM

Field Conditions: 39°/57°F CLR

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		1080293
Turbidity Meter		22090200337

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4603.4	8.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	~~8.06~~ 8.09	± 0.1	GWMP
pH (SU)	7.00	7.02	7.86	± 0.1	GWMP
pH (SU)	10.00	10.01	7.89	± 0.1	GWMP
D.O. (%)	N/A	100.95	8.53	± 10%	NA
ORP (mV)	228.0	235.3	7.92	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.74	± 10% of standard	EPA 2023
	20	21.1		
	100	101		
	900	922		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: MCDONOUGH

Field Instrumentation Calibration Form

Date: 2/6/24

Calibrated By: M. MANN

Field Conditions: _____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		1080293
Turbidity Meter		22090D00337

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start	0815	**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4492.2	7.75	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	7.78	± 0.1	GWMP
pH (SU)	7.00	7.03	9.42	± 0.1	GWMP
pH (SU)	10.00	9.98	10.17	± 0.1	GWMP
D.O. (%)	N/A	99.75	10.26	± 10%	NA
ORP (mV)	228.0	222.5	10.48	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.9	± 10% of standard	EPA 2023
	20	22.0		
	100	108		
	800	803		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 1/30/24

Calibrated By: Daniel Howard

Field Conditions: clear + cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ/AquaTroll	1080302
Turbidity Meter	Hach 2100 Q	22080D000173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	Atlanta Instrument
pH (SU)	4.00	24005593	11/24	" "
pH (SU)	7.00	24063597	11/24	" "
pH (SU)	10.00	24004996	11/24	" "
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/24	Atlanta Instrument

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.71	± 0.1	GWMP
pH (SU)	7.00	7.02	18.17	± 0.1	GWMP
pH (SU)	10.00	10.11	17.40	± 0.1	GWMP
D.O. (%)	N/A	100.74	18.65	± 10%	NA
ORP (mV)	228.0	239.3	17.19	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.6	± 10% of standard	EPA 2023
	100	101		
	800	837		
	CK 10	9.96		

Calibration Check					
Time Start 1211		Time Finish 1225			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4526	16.85	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	16.88	± 0.1	GWMP
pH (SU)	7.00	7.04	16.92	± 0.1	GWMP
pH (SU)	10.00	10.14	16.95	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.68	± 10% of standard	EPA 2023
	20	19.5		
	100	98.8		
	800	794		

Notes:

Site Name: Plant McDonough

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 1/31/24

Field Conditions: Clear & Cold

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1080300
Turbidity Meter	Hach 2100Q	22080D000173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	A+I Instrument
pH (SU)	4.00	24005593	11/24	" "
pH (SU)	7.00	24003597	11/24	" "
pH (SU)	10.00	24004996	11/24	" "
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/24	A+I Instrument

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	19.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	19.70	± 0.1	GWMP
pH (SU)	7.00	7.02	18.87	± 0.1	GWMP
pH (SU)	10.00	10.05	18.61	± 0.1	GWMP
D.O. (%)	N/A	100.45	20.52	± 10%	NA
ORP (mV)	228.0	237.8	18.30	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.2	± 10% of standard	EPA 2023
	100	98.2		
	800	790		
	CK 10	10.0		

Calibration Check					
Time Start	1520	Time Finish	1535		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4415	20.30	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	20.24	± 0.1	GWMP
pH (SU)	7.00	7.00	18.71	± 0.1	GWMP
pH (SU)	10.00	10.02	17.96	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	99.8		
	800	787		
	10	10.1		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 2/1/24

Calibrated By: Daniel Howard

Field Conditions: Clear, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1080300
Turbidity Meter	Hach 2100Q	22080D000173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	Atl Instrument
pH (SU)	4.00	24005593	11/24	" "
pH (SU)	7.00	24003597	11/24	" "
pH (SU)	10.00	24004996	11/24	" "
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	2400 6903	H/24	Atl Instrument

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4498	19.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	19.34	± 0.1	GWMP
pH (SU)	7.00	7.02	18.74	± 0.1	GWMP
pH (SU)	10.00	10.05	17.99	± 0.1	GWMP
D.O. (%)	N/A	99.49	20.04	± 10%	NA
ORP (mV)	228.0	238.7	17.64	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	99.7		
	800	795		
	ck 10	10.0		

Calibration Check					
Time Start	1305	Time Finish	1405		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4571	21.97	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	21.97	± 0.1	GWMP
pH (SU)	7.00	7.02	21.67	± 0.1	GWMP
pH (SU)	10.00	10.03	21.50	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.9	± 10% of standard	EPA 2023
	100	101		
	800	792		
	ck 10	10.1		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 2/2/24

Calibrated By: Daniel Howard

Field Conditions: Clear + Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ Aquatroll	1080300
Turbidity Meter	Hach 2100 Q	22080D00178

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	At1 Instrument
pH (SU)	4.00	24005593	11/24	" "
pH (SU)	7.00	24003597	11/24	" "
pH (SU)	10.00	24004996	11/24	" "
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/24	At1 Instrument

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	19.82	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	19.75°C	± 0.1	GWMP
pH (SU)	7.00	7.02	19.98°C	± 0.1	GWMP
pH (SU)	10.00	10.05	20.12	± 0.1	GWMP
D.O. (%)	N/A	100.43	—	± 10%	NA
ORP (mV)	228.0	236.9	19.04	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	804		
	ck 10	10.0		

Calibration Check					
Time Start	1120	Time Finish	1135		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4479	18.64	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	18.64	± 0.1	GWMP
pH (SU)	7.00	7.03	18.25	± 0.1	GWMP
pH (SU)	10.00	10.06	18.15	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	98.9		
	800	791		
	ck 10	10.0		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 2/5/24

Calibrated By: Daniel Howard

Field Conditions: Overcast, slight chance of rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ Aquatroll	1080305
Turbidity Meter	Hach 2100 Q	22080B000173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400593	11/24	A+I Instrument
pH (SU)	4.00	2400593	11/24	" "
pH (SU)	7.00	24003597	11/24	" "
pH (SU)	10.00	24004996	11/24	" "
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/24	A+I Instrument

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.41	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.61	± 0.1	GWMP
pH (SU)	7.00	7.02	18.88	± 0.1	GWMP
pH (SU)	10.00	10.05	18.79	± 0.1	GWMP
D.O. (%)	N/A	~~100~~ 100.04	~~18~~ 18.97	± 10%	NA
ORP (mV)	228.0	237.4	18.63	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	~~800~~ 100	99.9		
	800	797		
	ck 10	9.96		

Calibration Check					
Time Start	1230	Time Finish	1245		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4485	16.84	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	16.84	± 0.1	GWMP
pH (SU)	7.00	7.00	16.84	± 0.1	GWMP
pH (SU)	10.00	10.01	16.64	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	100		
	800	793		
	ck 10	10.01		

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 1/30/24

Calibrated By: P Wahl

Field Conditions: Sunny, cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquadroll 400	1082817
Turbidity Meter	HACH 2100Q	220900000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/2024	Atlanta Instrument Rentals (AIR)
pH (SU)	4.00	24005593	11/2024	AIR
pH (SU)	7.00	24003597	11/2024	↓
pH (SU)	10.00	24004996	11/2024	↓
D.O. (%)	N/A	—	—	N/A
ORP (mV)	228.0	24006403	11/2024	AIR

Calibration					
Time Start 0800		Time Finish 0830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4110.8	3.95	± 10% of standard	EPA 2023
pH (SU)	4.00	PW ~~3.97~~ 3.97	PW ~~4.09~~ 4.97	± 0.1	GWMP
pH (SU)	7.00	7.00	4.97	± 0.1	GWMP
pH (SU)	10.00	10.05	5.00	± 0.1	GWMP
D.O. (%)	N/A	104.78	4.67	± 10%	NA
ORP (mV)	228.0	228.0	4.76	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.85	± 10% of standard	EPA 2023
	20	20.5		
	100	103		
	800	828		

Calibration Check					
Time Start 1245		Time Finish 1355			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	3764.5	21.40	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.40	± 0.1	GWMP
pH (SU)	7.00	6.90	16.04	± 0.1	GWMP
pH (SU)	10.00	4.91	16.01	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.9		
	100	97.8		
	800	775		

Notes:

Site Name: McDonough

Field Instrumentation Calibration Form

Date: 1/31/24

Calibrated By: D Wahl

Field Conditions: Clear, cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1082817
Turbidity Meter	HACH 2100Q	22090C0000

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AIR
pH (SU)	4.00	24005593	11/24	"
pH (SU)	7.00	24003597	11/24	"
pH (SU)	10.00	24004996	11/24	"
D.O. (%)	N/A	—	—	N/A
ORP (mV)	228.0	24006903	11/24	AIR

Calibration					
Time Start 0800		Time Finish 0830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4355.6	16.64	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	16.45	± 0.1	GWMP
pH (SU)	7.00	6.92	16.35	± 0.1	GWMP
pH (SU)	10.00	10.04	16.36	± 0.1	GWMP
D.O. (%)	N/A	99.70	15.48	± 10%	NA
ORP (mV)	228.0	227.8	16.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.59	± 10% of standard	EPA 2023
	20	20.0		
	100	97.8		
	800	806		

Calibration Check DW DW					
Time Start ~~0800~~ 1430		Time Finish ~~0830~~ ~~1430~~ 1440			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4468.9	17.68	± 10% of standard	EPA 2023
pH (SU)	4.00	3.90	17.68	± 0.1	GWMP
pH (SU)	7.00	6.97	17.58	± 0.1	GWMP
pH (SU)	10.00	10.09	17.02	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.9		
	100	105		
	800	781		

Notes:

Field Instrumentation Calibration Form

Site Name: McDonough

Date: 2/1/24

Calibrated By: P Vahl

Field Conditions: Sunny, cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatrol 400	10826817
Turbidity Meter	HACH 2100Q	22090000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AIR
pH (SU)	4.00	24005543		
pH (SU)	7.00	24005597		
pH (SU)	10.00	24004996		
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	11/24	AIR

Calibration					
Time Start 0830		Time Finish 0900			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4483.1	16.83	± 10% of standard	EPA 2023
pH (SU)	4.00	~~4.00~~ 4.05	16.69	± 0.1	GWMP
pH (SU)	7.00	~~6.92~~ 7.03	16.56	± 0.1	GWMP
pH (SU)	10.00	10.10	16.75	± 0.1	GWMP
D.O. (%)	N/A	98.75	13.89	± 10%	NA
ORP (mV)	228.0	229.2	15.18	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.68	± 10% of standard	EPA 2023
	20	20.3		
	100	100		
	800	789		

Calibration Check					
Time Start 1338		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4506.2	18.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	18.03	± 0.1	GWMP
pH (SU)	7.00	7.01	17.50	± 0.1	GWMP
pH (SU)	10.00	9.90		± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.42	± 10% of standard	EPA 2023
	20	19.9		
	100	98.6		
	800	816		

Notes:

Field Instrumentation Calibration Form

Site Name: McDonough

Date: 2/2/24

Calibrated By: P Wani

Field Conditions: clear, cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1802817
Turbidity Meter	HACH 2100Q	21900000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	ATR
pH (SU)	4.00	24005593	"	"
pH (SU)	7.00	24003547	"	"
pH (SU)	10.00	24004016	"	"
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24003503	11/24	ATR

Calibration					
Time Start 0950		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4487.6	17.97	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	17.88	± 0.1	GWMP
pH (SU)	7.00	7.00	17.95	± 0.1	GWMP
pH (SU)	10.00	10.08	18.11	± 0.1	GWMP
D.O. (%)	N/A	101.62	17.25	± 10%	NA
ORP (mV)	228.0	223.3	18.05	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.83	± 10% of standard	EPA 2023
	20	19.6		
	100	95.9		
	800	803		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Half day of Sampling

3.97 17.88
~~3.98~~
7.00 17.95
10.08 18.11

Site Name: McDonough

Field Instrumentation Calibration Form

Date: 2/5/24

Calibrated By: P Wani

Field Conditions: Cloudy, cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1802817
Turbidity Meter	HACH 2100Q	220900000086

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AIR
pH (SU)	4.00	24005593		
pH (SU)	7.00	24003597		
pH (SU)	10.00	24004996		
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006403	11/24	AIR

Calibration					
Time Start 0745		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4560.6	18.70	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	18.70	± 0.1	GWMP
pH (SU)	7.00	7.04	17.79	± 0.1	GWMP
pH (SU)	10.00	10.08	17.34	± 0.1	GWMP
D.O. (%)	N/A	100.50	16.02	± 10%	NA
ORP (mV)	228.0	229.4	17.01	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.84	± 10% of standard	EPA 2023
	20	20.1		
	100	110		
	800	774		

Calibration Check					
Time Start 1320		Time Finish 1330			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,897.1	15.95	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	15.95	± 0.1	GWMP
pH (SU)	7.00	6.98	14.98	± 0.1	GWMP
pH (SU)	10.00	10.09	14.62	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.94	± 10% of standard	EPA 2023
	20	19.6		
	100	94.9		
	800	792		

Notes:

4.01 18.70

7.04 17.79

10.08 17.34

Field Instrumentation Calibration Form

Site Name: McDonough

Date: 1-30-24

Calibrated By: J. BANKHEAD

Field Conditions: 30°F, SUNNY

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IN-SITU / AQUA TROLL	~~1080293~~ 98 1080302
Turbidity Meter	HACH / 2100 Q	22090D000397

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/2024	AIR, INC
pH (SU)	4.00	24005593	11/2024	↓
pH (SU)	7.00	24003597	11/2024	↓
pH (SU)	10.00	24004996	11/2024	↓
D.O. (%)	N/A	B.O.: 993.62 mbar	—	—
ORP (mV)	228.0	24006903	11/2024	AIR, INC

Calibration					
Time Start 8:25		Time Finish 8:54			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4579	3.33	± 10% of standard	EPA 2023
pH (SU)	4.00	3.87	3.44	± 0.1	GWMP
pH (SU)	7.00	7.30	3.74	± 0.1	GWMP
pH (SU)	10.00	10.28	3.75	± 0.1	GWMP
D.O. (%)	N/A	100.15	2.20	± 10%	NA
ORP (mV)	228.0	252.2	3.60	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	22.0	± 10% of standard	EPA 2023
	100	99.7		
	800	775		

Calibration Check					
Time Start 13:05		Time Finish 13:14			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4.09 ms/cm	15.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	15.72	± 0.1	GWMP
pH (SU)	7.00	7.02	16.43	± 0.1	GWMP
pH (SU)	10.00	10.01	14.78	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	~~22.0~~ 98 19.6	± 10% of standard	EPA 2023
	100	~~99.7~~ 98 96.5		
	800	~~775~~ 98 787		

Notes:

Field Instrumentation Calibration Form

Site Name: McDonough

Date: 1-31-24

Calibrated By: J. BANKHEAD

Field Conditions: SUNNY, 38°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ / Aqua TROLL	1080302
Turbidity Meter	HACH / 2100Q	22090D000397

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24003593	11-2024	AIR
pH (SU)	4.00	24005993	11-2024	AIR
pH (SU)	7.00	24003594	11-2024	AIR
pH (SU)	10.00	24004996	11-2024	AIR
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	11-2024	AIR

Calibration					
Time Start 8:00			Time Finish 8:10		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4564	13.40	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	13.92	± 0.1	GWMP
pH (SU)	7.00	6.78	14.01	± 0.1	GWMP
pH (SU)	10.00	10.05	13.90	± 0.1	GWMP
D.O. (%)	N/A	93.9	11.20	± 10%	NA
ORP (mV)	228.0	239.2	13.02	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.5	± 10% of standard	EPA 2023
	100	98.8		
	800	800		

Calibration Check					
Time Start 13:20			Time Finish 13:36		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4250	15.63	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	15.63	± 0.1	GWMP
pH (SU)	7.00	7.04	14.90	± 0.1	GWMP
pH (SU)	10.00	10.01	14.99	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.2	± 10% of standard	EPA 2023
	100	99.4		
	800	805		

Notes:

Field Instrumentation Calibration Form

Site Name: McDonough

Date: 2-1-24

Calibrated By: J. BANKHEAD

Field Conditions: 30°F, SUNNY

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ / Aqua Troll	1080302
Turbidity Meter	~~HF-98~~ HACH 2100Q	22090D000397

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11-2024	AIR, INC
pH (SU)	4.00	24005593	11-2024	↓
pH (SU)	7.00	24003597	11-2024	↓
pH (SU)	10.00	24004996	11-2024	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006963	11-2024	AIR, INC

Calibration					
Time Start 8:27			Time Finish 8:50		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4439	11.90	± 10% of standard	EPA 2023
pH (SU)	4.00	3.93	12.25	± 0.1	GWMP
pH (SU)	7.00	7.00	12.36	± 0.1	GWMP
pH (SU)	10.00	10.09	12.18	± 0.1	GWMP
D.O. (%)	N/A	99.4	10.46	± 10%	NA
ORP (mV)	228.0	230.1	12.01	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.8	± 10% of standard	EPA 2023
	100	102		
	800	819		

Calibration Check					
Time Start 13:15			Time Finish		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,330	16.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	16.92	± 0.1	GWMP
pH (SU)	7.00	7.14	16.02	± 0.1	GWMP
pH (SU)	10.00	10.12	15.51	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.2	± 10% of standard	EPA 2023
	100	100		
	800	789		

Notes:

Site Name: McDonough

Field Instrumentation Calibration Form

Date: 2-2-24

Calibrated By: J. Bankhead

Field Conditions: Sunny, 36°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-situ/Aquatrol	1080302
Turbidity Meter	HACH/2100Q	~~2100Q~~ 220900000397

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11-2024	Air, Rentals Inc
pH (SU)	4.00	24005593	11-2024	Air, Rentals Inc
pH (SU)	7.00	24003597	11-2024	Air, Rentals Inc
pH (SU)	10.00	24004496	11-2024	"
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11-2024	Air, Inc

Calibration					
Time Start 8:12		Time Finish 8:22			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,486	14.52	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	14.58	± 0.1	GWMP
pH (SU)	7.00	7.03	14.62	± 0.1	GWMP
pH (SU)	10.00	10.11	14.54	± 0.1	GWMP
D.O. (%)	N/A	100.35	12.01	± 10%	NA
ORP (mV)	228.0	243.3	14.09	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	22	± 10% of standard	EPA 2023
	100	101		
	800	817		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Field Instrumentation Calibration Form

Site Name: McDonough

Date: 2-5-24

Calibrated By: J. BANCHERO

Field Conditions: Cloudy, 45°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ / Aqua Troll	1080302
Turbidity Meter	HACH / 2100Q	14080C034497

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11-2024	AIR INC
pH (SU)	4.00	24005593	11-2024	↓
pH (SU)	7.00	24003597	11-2024	
pH (SU)	10.00	24004956	11-2024	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	11-2024	AIR INC

Calibration

Time Start 8:13 Time Finish 8:20

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4496	15.33	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	15.62	± 0.1	GWMP
pH (SU)	7.00	7.04	15.81	± 0.1	GWMP
pH (SU)	10.00	10.11	15.60	± 0.1	GWMP
D.O. (%)	N/A	100.05	~~14.76~~ 13.93	± 10%	NA
ORP (mV)	228.0	240.7	15.16	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	98.1		
	800	~~779~~		

Calibration Check

Time Start 14:05 Time Finish 14:12

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4360	16.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	16.56	± 0.1	GWMP
pH (SU)	7.00	7.13	15.36	± 0.1	GWMP
pH (SU)	10.00	10.14	15.12	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	95		
	800	776		

Notes:

Site Name: Plant McDonough **Field Instrumentation Calibration Form** Date: 01/20/24

Calibrated By: DB Field Conditions: 40° F wd

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	[illegible]	1080297
Turbidity Meter	HACH	22090D00239

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24065545	11/24	AIR
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24003597	11/24	"
pH (SU)	10.00	24004996	11/24	"
D.O. (%)	N/A	24005593	11/24	"
ORP (mV)	228.0	24006803	11/24	"

Calibration					
Time Start 1045		**Time Finish** 1125			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4472.6	6.98	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97 ~~4.05~~	7.00	± 0.1	GWMP
pH (SU)	7.00	6.98	7.98	± 0.1	GWMP
pH (SU)	10.00	10.31	9.98	± 0.1	GWMP
D.O. (%)	N/A	103.04	6.97	± 10%	NA
ORP (mV)	228.0	237.9	7.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	96.7		
	800	803		
	10	9.8		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough **Field Instrumentation Calibration Form**

Date: 01/31/24

Field Conditions: Sunny 55°F

Calibrated By:

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	aquaread	11
Turbidity Meter	HACH	11

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start 1150		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4559.2	9.41	± 10% of standard	EPA 2023
pH (SU)	4.00	~~3.99~~ 3.90 ~~4.10~~	11.20	± 0.1	GWMP
pH (SU)	7.00	6.93	11.37	± 0.1	GWMP
pH (SU)	10.00	10.07	11.71	± 0.1	GWMP
D.O. (%)	N/A	92.04	9.24	± 10%	NA
ORP (mV)	228.0	225.0	11.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	103		
	800	833		
	10	10.3		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant McDonough

Field Instrumentation Calibration Form

Date: 02/01/24

Calibrated By: D. Bloomfield

Field Conditions: Sunny, 40°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		
Turbidity Meter		

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration

Time Start 0745 **Time Finish**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4457.3	3.65	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03 394	~~3.85~~ 4.88	± 0.1	GWMP
pH (SU)	7.00	7.10	~~7.05~~ 5.93	± 0.1	GWMP
pH (SU)	10.00	10.09	6.04	± 0.1	GWMP
D.O. (%)	N/A	93.98	3.63	± 10%	NA
ORP (mV)	228.0	235.2	6.61	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.7	± 10% of standard	EPA 2023
	100	102		
	200	734		
	10	9.59		

Calibration Check

Time Start **Time Finish**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

APPENDIX B

Laboratory Analytical Data, Data Validation Summary and Laboratory Accreditation

APPENDIX B

Laboratory Analytical Data September 2023

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 04, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Background Wells
Pace Project No.: 92686676

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 07, 2023 and September 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Background Wells
Pace Project No.: 92686676

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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(704)875-9092

SAMPLE SUMMARY

Project: Background Wells
Pace Project No.: 92686676

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686676001	**MCD-DGWA-70A**	Water	09/06/23 12:45	09/07/23 09:00
92686676002	**MCD-DGWA-71**	Water	09/06/23 16:09	09/07/23 09:00
92686676003	**MCD-DGWA-53**	Water	09/07/23 10:53	09/08/23 15:50

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SAMPLE ANALYTE COUNT

Project: Background Wells
Pace Project No.: 92686676

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92686676001	**MCD-DGWA-70A**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686676002	**MCD-DGWA-71**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686676003	**MCD-DGWA-53**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: Background Wells
Pace Project No.: 92686676

Sample: MCD-DGWA-70A **Lab ID: 92686676001** Collected: 09/06/23 12:45 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 20:36	7439-89-6	
Potassium	**1.6**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 20:36	7440-09-7	
Sodium	**3.4**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 20:36	7440-23-5	
Calcium	**6.6**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 20:36	7440-70-2	
Magnesium	**2.6**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 20:36	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	0.0012	1	09/09/23 08:50	09/13/23 12:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 12:47	7440-38-2	
Barium	**0.041**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/14/23 16:46	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 12:47	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 12:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 12:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 12:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 12:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 12:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 12:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 12:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 12:47	7782-49-2	
Thallium	**0.00053J**	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 12:47	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**46.0**	mg/L	25.0	25.0	1		09/11/23 13:27		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 13:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.2**	mg/L	5.0	5.0	1		09/11/23 14:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 14:35		
Alkalinity, Total as CaCO3	**27.2**	mg/L	5.0	5.0	1		09/11/23 14:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.2**	mg/L	1.0	0.60	1		09/09/23 18:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/23 18:55	16984-48-8	

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ANALYTICAL RESULTS

Project: Background Wells
Pace Project No.: 92686676

Sample: MCD-DGWA-70A **Lab ID: 92686676001** Collected: 09/06/23 12:45 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/09/23 18:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Background Wells
Pace Project No.: 92686676

Sample: MCD-DGWA-71 **Lab ID: 92686676002** Collected: 09/06/23 16:09 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.091**	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 20:41	7439-89-6	
Potassium	**0.77**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 20:41	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 20:41	7440-23-5	M1
Calcium	**7.0**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 20:41	7440-70-2	M1
Magnesium	**0.98**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 20:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0045**	mg/L	0.0030	0.0012	1	09/09/23 08:50	09/13/23 13:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:03	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/14/23 16:58	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:03	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:03	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:03	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**80.0**	mg/L	25.0	25.0	1		09/11/23 13:27		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 13:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.4**	mg/L	5.0	5.0	1		09/11/23 14:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 14:41		
Alkalinity, Total as CaCO3	**16.4**	mg/L	5.0	5.0	1		09/11/23 14:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.8**	mg/L	1.0	0.60	1		09/09/23 19:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/23 19:09	16984-48-8	

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ANALYTICAL RESULTS

Project: Background Wells
Pace Project No.: 92686676

Sample: MCD-DGWA-71 **Lab ID: 92686676002** Collected: 09/06/23 16:09 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**7.2**	mg/L	1.0	0.50	1		09/09/23 19:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Background Wells
Pace Project No.: 92686676

Sample: MCD-DGWA-53 **Lab ID: 92686676003** Collected: 09/07/23 10:53 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.9**	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 11:59	7439-89-6	
Potassium	**3.8**	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 11:59	7440-09-7	
Sodium	**7.6**	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 11:59	7440-23-5	
Calcium	**16.3**	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 11:59	7440-70-2	
Magnesium	**5.1**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 11:59	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	0.0012	1	09/11/23 14:11	09/14/23 18:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:15	7440-38-2	
Barium	**0.12**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:15	7440-41-7	
Boron	**0.052**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:15	7440-47-3	
Cobalt	**0.0086**	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:15	7439-92-1	
Lithium	**0.0085J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:15	7439-93-2	
Molybdenum	**0.022**	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/14/23 18:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 16:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**123**	mg/L	25.0	25.0	1		09/12/23 11:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**74.5**	mg/L	5.0	5.0	1		09/12/23 17:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 17:19		
Alkalinity, Total as CaCO3	**74.5**	mg/L	5.0	5.0	1		09/12/23 17:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.7**	mg/L	1.0	0.60	1		09/12/23 17:51	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		09/12/23 17:51	16984-48-8	

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ANALYTICAL RESULTS

Project: Background Wells
Pace Project No.: 92686676

Sample: MCD-DGWA-53 **Lab ID: 92686676003** Collected: 09/07/23 10:53 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**15.4**	mg/L	1.0	0.50	1		09/12/23 17:51	14808-79-8	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798622
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4136598 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/11/23 20:25	
Iron	mg/L	ND	0.040	0.025	09/11/23 20:25	
Magnesium	mg/L	ND	0.050	0.012	09/11/23 20:25	
Potassium	mg/L	ND	0.50	0.15	09/11/23 20:25	
Sodium	mg/L	ND	1.0	0.58	09/11/23 20:25	

LABORATORY CONTROL SAMPLE: 4136599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136986 4136987

Parameter	Units	92686676002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.0	1	1	8.2	7.6	115	58	75-125	7	20	M1
Iron	mg/L	0.091	1	1	1.2	1.1	108	106	75-125	2	20	
Magnesium	mg/L	0.98	1	1	2.1	2.0	108	101	75-125	4	20	
Potassium	mg/L	0.77	1	1	1.8	1.8	104	101	75-125	1	20	
Sodium	mg/L	8.8	1	1	9.9	9.2	117	42	75-125	8	20	M1

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798869
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686676003

METHOD BLANK: 4137528 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/23 10:22	
Iron	mg/L	ND	0.040	0.025	09/13/23 10:22	
Magnesium	mg/L	ND	0.050	0.012	09/13/23 10:22	
Potassium	mg/L	ND	0.50	0.15	09/13/23 10:22	
Sodium	mg/L	ND	1.0	0.58	09/13/23 10:22	

LABORATORY CONTROL SAMPLE: 4137529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137530 4137531

Parameter	Units	92686941001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	71.8	1	1	68.4	71.2	-338	-59	75-125	4	20	M1
Iron	mg/L	2.1	1	1	3.0	3.0	86	93	75-125	2	20	
Magnesium	mg/L	24.6	1	1	24.1	25.0	-53	33	75-125	4	20	M1
Potassium	mg/L	8.2	1	1	8.7	9.1	42	82	75-125	5	20	M1
Sodium	mg/L	20.0	1	1	19.8	20.6	-19	59	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798623
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4136603 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/13/23 12:38	
Arsenic	mg/L	ND	0.0050	0.0037	09/13/23 12:38	
Barium	mg/L	ND	0.0050	0.00067	09/14/23 16:38	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/23 12:38	
Boron	mg/L	ND	0.040	0.0086	09/13/23 12:38	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/23 12:38	
Chromium	mg/L	ND	0.0050	0.0011	09/13/23 12:38	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/23 12:38	
Lead	mg/L	ND	0.0010	0.00012	09/13/23 12:38	
Lithium	mg/L	ND	0.030	0.00073	09/13/23 12:38	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/23 12:38	
Selenium	mg/L	ND	0.0050	0.0014	09/13/23 12:38	
Thallium	mg/L	ND	0.0010	0.00018	09/13/23 12:38	

LABORATORY CONTROL SAMPLE: 4136604

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	0.097	97	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	0.10	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	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136605 4136606

Parameter	Units	92686676001 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	0.10	0.10	104	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136605 4136606

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.041	0.1	0.1	0.15	0.15	105	107	75-125	2	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	102	102	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.098	97	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.096	97	96	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	2	20	
Thallium	mg/L	0.00053J	0.1	0.1	0.095	0.095	94	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798903
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686676003

METHOD BLANK: 4137724 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/14/23 16:50	
Arsenic	mg/L	ND	0.0050	0.0037	09/14/23 16:50	
Barium	mg/L	ND	0.0050	0.00067	09/14/23 16:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/23 16:50	
Boron	mg/L	ND	0.040	0.0086	09/14/23 16:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/23 16:50	
Chromium	mg/L	ND	0.0050	0.0011	09/14/23 16:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/23 16:50	
Lead	mg/L	ND	0.0010	0.00012	09/14/23 16:50	
Lithium	mg/L	ND	0.030	0.00073	09/14/23 16:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/23 16:50	
Selenium	mg/L	ND	0.0050	0.0014	09/14/23 16:50	
Thallium	mg/L	ND	0.0010	0.00018	09/14/23 16:50	

LABORATORY CONTROL SAMPLE: 4137725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137726 4137727

Parameter	Units	92686941002 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	0.11	0.10	110	104	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.099	106	99	75-125	7	20	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137726 4137727

Parameter	Units	92686941002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.0027J	0.1	0.1	0.11	0.10	105	100	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	4	20	
Boron	mg/L	0.24	1	1	1.3	1.2	103	99	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	107	100	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.094	102	93	75-125	8	20	
Cobalt	mg/L	0.00040J	0.1	0.1	0.10	0.094	101	94	75-125	8	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.091	95	91	75-125	4	20	
Lithium	mg/L	0.0043J	0.1	0.1	0.10	0.099	100	94	75-125	6	20	
Molybdenum	mg/L	0.026	0.1	0.1	0.13	0.12	105	97	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.098	104	98	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.089	92	89	75-125	4	20	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 803461
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686676003

METHOD BLANK: 4161104 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/02/23 16:27	

LABORATORY CONTROL SAMPLE: 4161105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4161106 4161107

Parameter	Units	92686676003 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	0.0027	0.0026	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798883
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4137624 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/23 13:25	

LABORATORY CONTROL SAMPLE: 4137625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	80-120	

SAMPLE DUPLICATE: 4137626

Parameter	Units	92686830001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1540	1500	3	10	

SAMPLE DUPLICATE: 4137627

Parameter	Units	92686679004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	174	17	10	D6

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 799142
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686676003

METHOD BLANK: 4138899 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/23 11:42	

LABORATORY CONTROL SAMPLE: 4138900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 4138901

Parameter	Units	92686677006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	253	259	2	10	

SAMPLE DUPLICATE: 4138902

Parameter	Units	92687108002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	101	1	10	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 800476
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4146097 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	09/20/23 13:34	

LABORATORY CONTROL SAMPLE: 4146098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0020	81	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4146099 4146100

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	25	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798842
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4137442 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/23 11:24	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/23 11:24	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/23 11:24	

LABORATORY CONTROL SAMPLE: 4137443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE: 4137444

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: 4137445 4137446

Parameter	Units	92686252001 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	<5.0	50	50	48.4	47.8	97	96	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137447 4137448

Parameter	Units	92686487004 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	32.6	50	50	83.1	82.1	101	99	80-120	1	25	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 799173
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686676003

METHOD BLANK: 4139096 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/12/23 15:04	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/12/23 15:04	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/12/23 15:04	

LABORATORY CONTROL SAMPLE: 4139097

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: 4139098

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: 4139099 4139100

Parameter	Units	92686679012 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	51.2	51.0	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4139101 4139102

Parameter	Units	92686677009 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	96.9	50	50	148	148	103	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798662
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4136899 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/09/23 04:31	

LABORATORY CONTROL SAMPLE: 4136900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136901 4136902

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.56	106	111	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136903 4136904

Parameter	Units	92686861001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.38	0.37	76	75	80-120	2	10	M1

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 799296
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686676003

METHOD BLANK: 4140098 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/13/23 02:23	

LABORATORY CONTROL SAMPLE: 4140099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140102 4140103

Parameter	Units	92686679007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.44	0.43	87	85	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140133 4140134

Parameter	Units	92686941002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.49	104	97	80-120	7	10	

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 798687
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686676001, 92686676002

METHOD BLANK: 4136953 Matrix: Water
Associated Lab Samples: 92686676001, 92686676002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/23 13:26	
Fluoride	mg/L	ND	0.10	0.050	09/09/23 13:26	
Sulfate	mg/L	ND	1.0	0.50	09/09/23 13:26	

LABORATORY CONTROL SAMPLE: 4136954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136955 4136956

Parameter	Units	92686882001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.0	50	50	75.9	75.9	106	106	90-110	0	10	
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	101	101	90-110	1	10	
Sulfate	mg/L	13.2	50	50	66.5	66.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136957 4136958

Parameter	Units	92686872001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	840	50	50	885	882	89	82	90-110	0	10	M1
Fluoride	mg/L	15.2	2.5	2.5	17.5	17.7	92	98	90-110	1	10	
Sulfate	mg/L	55.9	50	50	93.3	93.1	75	74	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Background Wells
Pace Project No.: 92686676

QC Batch: 799070
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92686676003

METHOD BLANK: 4138708 Matrix: Water
Associated Lab Samples: 92686676003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/23 12:51	
Fluoride	mg/L	ND	0.10	0.050	09/12/23 12:51	
Sulfate	mg/L	ND	1.0	0.50	09/12/23 12:51	

LABORATORY CONTROL SAMPLE: 4138709

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	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138710 4138711

Parameter	Units	92687087001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	59.4	59.8	103	104	90-110	1	10	
Fluoride	mg/L	0.63	2.5	2.5	3.5	3.5	113	115	90-110	1	10	M1
Sulfate	mg/L	9.9	50	50	60.7	61.4	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138712 4138713

Parameter	Units	92686677010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.1	53.1	104	106	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	0	10	
Sulfate	mg/L	ND	50	50	52.7	54.0	105	108	90-110	2	10	

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QUALIFIERS

Project: Background Wells
Pace Project No.: 92686676

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.

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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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Background Wells
Pace Project No.: 92686676

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686676001	**MCD-DGWA-70A**	EPA 3010A	798622	EPA 6010D	798709
92686676002	**MCD-DGWA-71**	EPA 3010A	798622	EPA 6010D	798709
92686676003	**MCD-DGWA-53**	EPA 3010A	798869	EPA 6010D	798954
92686676001	**MCD-DGWA-70A**	EPA 3005A	798623	EPA 6020B	798699
92686676002	**MCD-DGWA-71**	EPA 3005A	798623	EPA 6020B	798699
92686676003	**MCD-DGWA-53**	EPA 3005A	798903	EPA 6020B	798992
92686676003	**MCD-DGWA-53**	EPA 7470A	803461	EPA 7470A	803573
92686676001	**MCD-DGWA-70A**	SM 2540C-2015	798883		
92686676002	**MCD-DGWA-71**	SM 2540C-2015	798883		
92686676003	**MCD-DGWA-53**	SM 2540C-2015	799142		
92686676001	**MCD-DGWA-70A**	EPA 7470A	800476	EPA 7470A	800627
92686676002	**MCD-DGWA-71**	EPA 7470A	800476	EPA 7470A	800627
92686676001	**MCD-DGWA-70A**	SM 2320B-2011	798842		
92686676002	**MCD-DGWA-71**	SM 2320B-2011	798842		
92686676003	**MCD-DGWA-53**	SM 2320B-2011	799173		
92686676001	**MCD-DGWA-70A**	SM 4500-S2D-2011	798662		
92686676002	**MCD-DGWA-71**	SM 4500-S2D-2011	798662		
92686676003	**MCD-DGWA-53**	SM 4500-S2D-2011	799296		
92686676001	**MCD-DGWA-70A**	EPA 300.0 Rev 2.1 1993	798687		
92686676002	**MCD-DGWA-71**	EPA 300.0 Rev 2.1 1993	798687		
92686676003	**MCD-DGWA-53**	EPA 300.0 Rev 2.1 1993	799070		

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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 ☐ Me

WO# : 92686676

92686676

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: 9-7-23 JC

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: 2.3 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): 2.3

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

Qualtrax ID: 69614

*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# : 92686676**

PM: BV Due Date: 09/21/23

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) (DF)	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)	BP1N	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																2					
2		2	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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Background Wells	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31405440.McD23	Pace Profile #:	16434-2

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686676
																	N	N	N	N	N	N		
1	MCD-DGWA-70A	WG	G	9/6/23	12:45		7	3		3		1					X	X	X	X	X	X		001
3	MCD-DGWA-71	WG	G	9/6/23	16:09		7	3		3		1					X	X	X	X	X	X		002
5																								
6																								
7																								
8																								
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10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code - MCD-GGR-1-COMP-[illegible]	[illegible] WSP	09/09/23	0900	[illegible]	9/9/23	

DATE Signed:

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

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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # **WO#: 92686676**

PM: BV **Due Date: 09/21/23**

CLIENT: 92-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: 9/8/23 TBE

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO#: 92686676**

PM: BV Due Date: 09/21/23

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)	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)	BP1U	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		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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	sosinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone: (470) 620-6176	Fax:	Project Name:	Background Wells	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686676
								Preservatives									N	N	N	N	N	N		
1	MCD-DGWA-53	WG	G	9/7/23	10:53		7	3		3		1					X	X	X	X	X	X		WS3
3																								
5																								
6																								
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8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MEUR WSP	09/08/23	1550	Ice - Pace	9/11/23	

DATE Signed:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 17, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 07, 2023 and September 14, 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

Revision 1: Amend collected time on MCD-B-102D & MCD-B-107D..

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686679001	**MCD-B-93**	Water	09/06/23 11:49	09/07/23 09:00
92686679002	**MCD-B-92**	Water	09/06/23 11:38	09/07/23 09:00
92686679003	**MCD-B-97**	Water	09/06/23 13:20	09/07/23 09:00
92686679004	**MCD-B-98**	Water	09/06/23 15:19	09/07/23 09:00
92686679005	**MCD-AP234-FB-4**	Water	09/06/23 11:30	09/07/23 09:00
92686679006	**MCD-AP234-EB-4**	Water	09/06/23 12:00	09/07/23 09:00
92686679007	**MCD-B-63**	Water	09/07/23 12:06	09/08/23 15:50
92686679008	**MCD-B-122D**	Water	09/07/23 15:11	09/08/23 15:50
92686679009	**MCD-B-101D**	Water	09/08/23 10:35	09/08/23 15:50
92686679010	**MCD-B-56**	Water	09/08/23 10:38	09/08/23 15:50
92686679011	**MCD-AP234-FD-5**	Water	09/07/23 00:00	09/08/23 15:50
92686679012	**MCD-AP234-FB-5**	Water	09/07/23 12:35	09/08/23 15:50
92686679013	**MCD-B-102D**	Water	09/11/23 10:46	09/12/23 08:30
92686679014	**MCD-B-82**	Water	09/11/23 11:57	09/12/23 08:30
92686679015	**MCD-B-66**	Water	09/11/23 13:57	09/12/23 08:30
92686679016	**MCD-B-106D**	Water	09/11/23 15:38	09/12/23 08:30
92686679017	**MCD-AP234-FD-4**	Water	09/11/23 00:00	09/12/23 08:30
92686679018	**MCD-AP234-EB-5**	Water	09/11/23 11:55	09/12/23 08:30
92686679019	**MCD-B-77**	Water	09/12/23 11:06	09/13/23 08:36
92686679020	**MCD-B-83**	Water	09/12/23 13:03	09/13/23 08:36
92686679021	**MCD-B-88**	Water	09/12/23 14:10	09/13/23 08:36
92686679022	**MCD-B-107D**	Water	09/12/23 09:46	09/13/23 08:36
92686679023	**MCD-B-120D**	Water	09/12/23 09:38	09/13/23 08:36
92686679024	**MCD-B-104D**	Water	09/13/23 12:34	09/14/23 14:22
92686679025	**MCD-B-108D**	Water	09/13/23 13:54	09/14/23 14:22
92686679026	**MCD-B-111D**	Water	09/13/23 12:42	09/14/23 14:22
92686679027	**MCD-B-125D**	Water	09/14/23 10:00	09/14/23 14:22

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92686679001	**MCD-B-93**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686679002	**MCD-B-92**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686679003	**MCD-B-97**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686679004	**MCD-B-98**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686679005	**MCD-AP234-FB-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686679006	**MCD-AP234-EB-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686679007	**MCD-B-63**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679008	**MCD-B-122D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679009	**MCD-B-101D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679010	**MCD-B-56**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679011	**MCD-AP234-FD-5**	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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679012	**MCD-AP234-FB-5**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679013	**MCD-B-102D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679014	**MCD-B-82**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679015	**MCD-B-66**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679016	**MCD-B-106D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679017	**MCD-AP234-FD-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679018	**MCD-AP234-EB-5**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679019	**MCD-B-77**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679020	**MCD-B-83**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679021	**MCD-B-88**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679022	**MCD-B-107D**	EPA 6010D	DRB	5

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679023	**MCD-B-120D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686679024	**MCD-B-104D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC, JCM	3
92686679025	**MCD-B-108D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC, JCM	3
92686679026	**MCD-B-111D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC, JCM	3
92686679027	**MCD-B-125D**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC, JCM	3

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

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-93 **Lab ID: 92686679001** Collected: 09/06/23 11:49 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:12	7439-89-6	
Potassium	**6.3**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:12	7440-09-7	
Sodium	**26.1**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:12	7440-23-5	
Calcium	**148**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:12	7440-70-2	
Magnesium	**25.5**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 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	0.0012	1	09/09/23 08:50	09/13/23 13:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:16	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/14/23 17:10	7440-39-3	
Beryllium	**0.014**	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:16	7440-41-7	
Boron	**3.0**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:16	7440-42-8	
Cadmium	**0.0010**	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:16	7440-47-3	
Cobalt	**0.041**	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:16	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:16	7439-98-7	
Selenium	**0.0071**	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:16	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1020**	mg/L	25.0	25.0	1		09/11/23 13:28		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 13:52	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.5**	mg/L	5.0	5.0	1		09/11/23 15:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 15:52		
Alkalinity, Total as CaCO3	**9.5**	mg/L	5.0	5.0	1		09/11/23 15:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.8**	mg/L	1.0	0.60	1		09/09/23 19:52	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	0.050	1		09/09/23 19:52	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-93 **Lab ID: 92686679001** Collected: 09/06/23 11:49 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**555**	mg/L	11.0	5.5	11		09/10/23 05:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-92 **Lab ID: 92686679002** Collected: 09/06/23 11:38 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.080**	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:28	7439-89-6	
Potassium	**6.4**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:28	7440-09-7	
Sodium	**29.6**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:28	7440-23-5	
Calcium	**158**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:28	7440-70-2	
Magnesium	**27.0**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 21:28	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/09/23 08:50	09/13/23 13:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:34	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/13/23 13:34	7440-39-3	
Beryllium	**0.013**	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:34	7440-41-7	
Boron	**3.2**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:34	7440-42-8	
Cadmium	**0.00080**	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:34	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:34	7439-92-1	
Lithium	**0.0095J**	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:34	7439-98-7	
Selenium	**0.0049J**	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:34	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1020**	mg/L	25.0	25.0	1		09/11/23 13:28		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 13:55	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:09		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/23 16:09		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:35	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.6**	mg/L	1.0	0.60	1		09/09/23 20:35	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	0.050	1		09/09/23 20:35	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-92 **Lab ID: 92686679002** Collected: 09/06/23 11:38 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**531**	mg/L	11.0	5.5	11		09/10/23 05:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-97 **Lab ID: 92686679003** Collected: 09/06/23 13:20 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:33	7439-89-6	
Potassium	**5.7**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:33	7440-09-7	
Sodium	**41.8**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:33	7440-23-5	
Calcium	**220**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:33	7440-70-2	
Magnesium	**35.8**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 21:33	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/09/23 08:50	09/13/23 13:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:38	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/13/23 13:38	7440-39-3	
Beryllium	**0.0016**	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:38	7440-41-7	
Boron	**3.7**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:38	7440-42-8	
Cadmium	**0.00059**	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:38	7440-47-3	
Cobalt	**0.0029J**	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:38	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:38	7439-98-7	
Selenium	**0.0031J**	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:38	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1190**	mg/L	25.0	25.0	1		09/11/23 13:28		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 14:01	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**60.3**	mg/L	5.0	5.0	1		09/11/23 16:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:14		
Alkalinity, Total as CaCO3	**60.3**	mg/L	5.0	5.0	1		09/11/23 16:14		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:36	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.2**	mg/L	1.0	0.60	1		09/09/23 20:49	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		09/09/23 20:49	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-97 **Lab ID: 92686679003** Collected: 09/06/23 13:20 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**639**	mg/L	13.0	6.5	13		09/10/23 05:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-98 **Lab ID: 92686679004** Collected: 09/06/23 15:19 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.081**	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:38	7439-89-6	
Potassium	**5.0**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:38	7440-09-7	
Sodium	**4.2**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:38	7440-23-5	
Calcium	**43.2**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:38	7440-70-2	
Magnesium	**2.8**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 21:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/09/23 08:50	09/13/23 13:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:42	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/13/23 13:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:42	7440-41-7	
Boron	**0.30**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:42	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:42	7439-92-1	
Lithium	**0.00097J**	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:42	7439-93-2	
Molybdenum	**0.00075J**	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:42	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**207**	mg/L	25.0	25.0	1		09/11/23 13:28		D6
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 14:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**76.8**	mg/L	5.0	5.0	1		09/11/23 16:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:23		
Alkalinity, Total as CaCO3	**76.8**	mg/L	5.0	5.0	1		09/11/23 16:23		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:36	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		09/09/23 21:32	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/09/23 21:32	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-98 **Lab ID: 92686679004** Collected: 09/06/23 15:19 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**53.9**	mg/L	1.0	0.50	1		09/09/23 21:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FB-4 **Lab ID: 92686679005** Collected: 09/06/23 11:30 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:44	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:44	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:44	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:44	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 21:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/09/23 08:50	09/13/23 13:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:46	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/13/23 13:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:46	7440-41-7	
Boron	**0.021J**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:46	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/11/23 13:30		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 14:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:31		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/23 16:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/23 22:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/23 22:15	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FB-4 **Lab ID: 92686679005** Collected: 09/06/23 11:30 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/09/23 22:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-EB-4 **Lab ID: 92686679006** Collected: 09/06/23 12:00 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:49	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:49	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:49	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:49	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 21:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/09/23 08:50	09/13/23 13:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/13/23 13:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:50	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:50	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/11/23 13:31		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 14:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/23 16:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/23 22:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/23 22:30	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-EB-4 **Lab ID: 92686679006** Collected: 09/06/23 12:00 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/09/23 22:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-63 **Lab ID: 92686679007** Collected: 09/07/23 12:06 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.97**	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 12:41	7439-89-6	
Potassium	**2.6**	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 12:41	7440-09-7	
Sodium	**12.4**	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 12:41	7440-23-5	
Calcium	**23.7**	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 12:41	7440-70-2	
Magnesium	**8.3**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 12:41	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	0.0012	1	09/11/23 14:11	09/14/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:24	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:24	7440-39-3	
Beryllium	**0.00050J**	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:24	7440-41-7	
Boron	**0.34**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:24	7440-42-8	
Cadmium	**0.00028J**	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:24	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:24	7440-47-3	
Cobalt	**0.047**	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:24	7439-92-1	
Lithium	**0.0069J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/14/23 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 16:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**186**	mg/L	25.0	25.0	1		09/12/23 11:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.4**	mg/L	5.0	5.0	1		09/12/23 17:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 17:36		
Alkalinity, Total as CaCO3	**28.4**	mg/L	5.0	5.0	1		09/12/23 17:36		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.8**	mg/L	1.0	0.60	1		09/12/23 19:23	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/12/23 19:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-63 **Lab ID: 92686679007** Collected: 09/07/23 12:06 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**87.1**	mg/L	1.0	0.50	1		09/12/23 19:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-122D **Lab ID: 92686679008** Collected: 09/07/23 15:11 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**11.3**	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 12:46	7439-89-6	
Potassium	**3.6**	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 12:46	7440-09-7	
Sodium	**23.7**	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 12:46	7440-23-5	
Calcium	**52.3**	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 12:46	7440-70-2	
Magnesium	**10.1**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 12:46	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	0.0012	1	09/11/23 14:11	09/14/23 18:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:28	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:28	7440-39-3	
Beryllium	**0.00049J**	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:28	7440-41-7	
Boron	**0.26**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:28	7440-47-3	
Cobalt	**0.011**	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:28	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:28	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/14/23 18:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 16:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**324**	mg/L	25.0	25.0	1		09/12/23 11:59		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		09/12/23 17:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 17:43		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		09/12/23 17:43		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.026J**	mg/L	0.10	0.022	1		09/13/23 02:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.6**	mg/L	1.0	0.60	1		09/12/23 19:38	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.050	1		09/12/23 19:38	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-122D **Lab ID: 92686679008** Collected: 09/07/23 15:11 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**110**	mg/L	2.0	1.0	2		09/13/23 08:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-101D **Lab ID: 92686679009** Collected: 09/08/23 10:35 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.2**	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 12:51	7439-89-6	
Potassium	**7.2**	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 12:51	7440-09-7	
Sodium	**24.2**	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 12:51	7440-23-5	
Calcium	**96.6**	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 12:51	7440-70-2	
Magnesium	**36.8**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 12:51	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	0.0012	1	09/11/23 14:11	09/14/23 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:40	7440-38-2	
Barium	**0.075**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:40	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:40	7440-47-3	
Cobalt	**0.0032J**	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:40	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/15/23 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	10/02/23 12:15	10/02/23 16:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**668**	mg/L	25.0	25.0	1		09/12/23 12:00		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**38.3**	mg/L	5.0	5.0	1		09/14/23 12:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:03		
Alkalinity, Total as CaCO3	**38.3**	mg/L	5.0	5.0	1		09/14/23 12:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.5**	mg/L	1.0	0.60	1		09/12/23 19:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/12/23 19:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-101D **Lab ID: 92686679009** Collected: 09/08/23 10:35 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**353**	mg/L	7.0	3.5	7		09/13/23 08:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-56 **Lab ID: 92686679010** Collected: 09/08/23 10:38 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.15**	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 12:56	7439-89-6	
Potassium	**5.3**	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 12:56	7440-09-7	
Sodium	**22.5**	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 12:56	7440-23-5	
Calcium	**19.8**	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 12:56	7440-70-2	
Magnesium	**35.9**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 12:56	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	0.0012	1	09/11/23 14:11	09/14/23 18:49	7440-36-0	
Arsenic	**0.0043J**	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:49	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:49	7440-39-3	
Beryllium	**0.0013**	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:49	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:49	7440-42-8	
Cadmium	**0.00034J**	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:49	7440-47-3	
Cobalt	**0.057**	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:49	7439-92-1	
Lithium	**0.0055J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:39	7439-98-7	
Selenium	**0.0087**	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:49	7782-49-2	
Thallium	**0.00021J**	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/15/23 19:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**402**	mg/L	25.0	25.0	1		09/12/23 12:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:20		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 12:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.8**	mg/L	1.0	0.60	1		09/12/23 21:23	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.050	1		09/12/23 21:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-56 **Lab ID: 92686679010** Collected: 09/08/23 10:38 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**233**	mg/L	5.0	2.5	5		09/13/23 09:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FD-5 **Lab ID: 92686679011** Collected: 09/07/23 00:00 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 13:07	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 13:07	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 13:07	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 13:07	7440-70-2	
Magnesium	**0.013J**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 13:07	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/11/23 14:11	09/14/23 18:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:53	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:53	7440-39-3	
Beryllium	**0.00049J**	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:53	7440-41-7	
Boron	**0.27**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:53	7440-47-3	
Cobalt	**0.011**	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:53	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:53	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/15/23 19:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**333**	mg/L	25.0	25.0	1		09/12/23 11:59		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**112**	mg/L	5.0	5.0	1		09/12/23 18:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 18:03		
Alkalinity, Total as CaCO3	**112**	mg/L	5.0	5.0	1		09/12/23 18:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.9**	mg/L	1.0	0.60	1		09/13/23 00:39	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	0.050	1		09/13/23 00:39	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FD-5 **Lab ID: 92686679011** Collected: 09/07/23 00:00 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**18.4**	mg/L	2.0	1.0	2		09/13/23 10:11	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FB-5 **Lab ID: 92686679012** Collected: 09/07/23 12:35 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 13:12	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 13:12	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 13:12	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 13:12	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 13:12	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	0.0012	1	09/11/23 14:11	09/14/23 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:57	7440-43-9	
Chromium	**0.0049J**	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:57	7439-93-2	
Molybdenum	**0.0032J**	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/15/23 19:47	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	10/02/23 12:15	10/02/23 17:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/12/23 11:59		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 18:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 18:14		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/12/23 18:14		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/13/23 00:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 00:54	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FB-5 **Lab ID: 92686679012** Collected: 09/07/23 12:35 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/13/23 00:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-102D **Lab ID: 92686679013** Collected: 09/11/23 10:46 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:41	7439-89-6	
Potassium	**5.9**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:41	7440-09-7	
Sodium	**17.9**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:41	7440-23-5	
Calcium	**71.9**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:41	7440-70-2	
Magnesium	**16.0**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:41	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	0.0012	1	09/13/23 13:00	09/20/23 14:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:59	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:59	7440-39-3	
Beryllium	**0.00074**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:59	7440-41-7	
Boron	**1.8**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:59	7440-42-8	
Cadmium	**0.00072**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:59	7440-47-3	
Cobalt	**0.010**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:59	7439-92-1	
Lithium	**0.0091J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:59	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	10/02/23 12:15	10/02/23 17:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**442**	mg/L	25.0	25.0	1		09/13/23 11:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.5**	mg/L	5.0	5.0	1		09/14/23 15:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:52		
Alkalinity, Total as CaCO3	**13.5**	mg/L	5.0	5.0	1		09/14/23 15:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.4**	mg/L	1.0	0.60	1		09/14/23 23:35	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/14/23 23:35	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-102D **Lab ID: 92686679013** Collected: 09/11/23 10:46 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**233**	mg/L	5.0	2.5	5		09/15/23 11:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-82 **Lab ID: 92686679014** Collected: 09/11/23 11:57 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.036J**	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:46	7439-89-6	
Potassium	**7.3**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:46	7440-09-7	
Sodium	**16.5**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:46	7440-23-5	
Calcium	**52.3**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:46	7440-70-2	
Magnesium	**70.4**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:46	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	0.0012	1	09/13/23 13:00	09/20/23 15:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 15:03	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 15:03	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/22/23 14:50	7440-41-7	
Boron	**0.38**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 15:03	7440-42-8	
Cadmium	**0.00058**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 15:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 15:03	7440-47-3	
Cobalt	**0.0024J**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 15:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 15:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 15:03	7439-93-2	
Molybdenum	**0.00081J**	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 15:03	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 15:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 15:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**612**	mg/L	25.0	25.0	1		09/14/23 13:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.9**	mg/L	5.0	5.0	1		09/14/23 15:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:57		
Alkalinity, Total as CaCO3	**16.9**	mg/L	5.0	5.0	1		09/14/23 15:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.9**	mg/L	1.0	0.60	1		09/14/23 23:49	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/14/23 23:49	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-82 **Lab ID: 92686679014** Collected: 09/11/23 11:57 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**373**	mg/L	8.0	4.0	8		09/15/23 11:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-66 **Lab ID: 92686679015** Collected: 09/11/23 13:57 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.93**	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:51	7439-89-6	
Potassium	**5.2**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:51	7440-09-7	
Sodium	**29.7**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:51	7440-23-5	
Calcium	**46.7**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:51	7440-70-2	
Magnesium	**45.7**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/13/23 13:00	09/20/23 15:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 15:07	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 15:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 15:07	7440-41-7	
Boron	**2.1**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 15:07	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 15:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 15:07	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 15:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 15:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 15:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 15:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 15:07	7782-49-2	
Thallium	**0.00021J**	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 15:07	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	10/02/23 12:15	10/02/23 17:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**484**	mg/L	25.0	25.0	1		09/14/23 13:34		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**68.1**	mg/L	5.0	5.0	1		09/14/23 16:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 16:03		
Alkalinity, Total as CaCO3	**68.1**	mg/L	5.0	5.0	1		09/14/23 16:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.0**	mg/L	1.0	0.60	1		09/15/23 01:20	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/15/23 01:20	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-66 **Lab ID: 92686679015** Collected: 09/11/23 13:57 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**260**	mg/L	5.0	2.5	5		09/15/23 11:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-106D **Lab ID: 92686679016** Collected: 09/11/23 15:38 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:57	7439-89-6	
Potassium	**3.5**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:57	7440-09-7	
Sodium	**13.7**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:57	7440-23-5	
Calcium	**35.3**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:57	7440-70-2	
Magnesium	**16.6**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:57	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	0.0012	1	09/13/23 13:00	09/20/23 15:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 15:15	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 15:15	7440-39-3	
Beryllium	**0.000066J**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 15:15	7440-41-7	
Boron	**0.81**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 15:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 15:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 15:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 15:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 15:15	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 15:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 15:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 15:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 15:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**304**	mg/L	25.0	25.0	1		09/14/23 13:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.2**	mg/L	5.0	5.0	1		09/14/23 16:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 16:11		
Alkalinity, Total as CaCO3	**35.2**	mg/L	5.0	5.0	1		09/14/23 16:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.8**	mg/L	1.0	0.60	1		09/15/23 01:34	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		09/15/23 01:34	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-106D **Lab ID: 92686679016** Collected: 09/11/23 15:38 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**118**	mg/L	3.0	1.5	3		09/15/23 12:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FD-4 **Lab ID: 92686679017** Collected: 09/11/23 00:00 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.057**	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 14:07	7439-89-6	
Potassium	**7.0**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 14:07	7440-09-7	
Sodium	**15.6**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 14:07	7440-23-5	
Calcium	**50.4**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 14:07	7440-70-2	
Magnesium	**66.8**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 14:07	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/13/23 13:00	09/20/23 15:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 15:19	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 15:19	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/22/23 14:54	7440-41-7	
Boron	**0.39**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 15:19	7440-42-8	
Cadmium	**0.00063**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 15:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 15:19	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 15:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 15:19	7439-93-2	
Molybdenum	**0.00098J**	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 15:19	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 15:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 15:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**620**	mg/L	25.0	25.0	1		09/14/23 13:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.2**	mg/L	5.0	5.0	1		09/14/23 16:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 16:28		
Alkalinity, Total as CaCO3	**16.2**	mg/L	5.0	5.0	1		09/14/23 16:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.0**	mg/L	1.0	0.60	1		09/15/23 01:48	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/15/23 01:48	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-FD-4 **Lab ID: 92686679017** Collected: 09/11/23 00:00 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**379**	mg/L	8.0	4.0	8		09/15/23 12:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-EB-5 **Lab ID: 92686679018** Collected: 09/11/23 11:55 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 14:12	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 14:12	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 14:12	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 14:12	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 14:12	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	0.0012	1	09/13/23 13:00	09/20/23 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 15:48	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 15:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 15:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 15:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 15:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 15:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 15:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 15:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/14/23 13:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 16:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 16:33		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 16:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:59	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/15/23 02:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/23 02:02	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-AP234-EB-5 **Lab ID: 92686679018** Collected: 09/11/23 11:55 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/15/23 02:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-77 **Lab ID: 92686679019** Collected: 09/12/23 11:06 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**45.2**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 21:30	7439-89-6	
Potassium	**2.1**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 21:30	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 21:30	7440-23-5	
Calcium	**19.2**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 21:30	7440-70-2	
Magnesium	**6.2**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 21:30	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/14/23 11:00	09/25/23 16:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/25/23 16:28	7440-38-2	
Barium	**0.12**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/25/23 16:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/14/23 11:00	09/25/23 16:28	7440-41-7	
Boron	**0.26**	mg/L	0.040	0.0086	1	09/14/23 11:00	09/25/23 16:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/25/23 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/25/23 16:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/25/23 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/25/23 16:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/14/23 11:00	09/25/23 16:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/25/23 16:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/25/23 16:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/25/23 16:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**98.0**	mg/L	25.0	25.0	1		09/18/23 12:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/15/23 18:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/15/23 18:11		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/15/23 18:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		09/15/23 03:00	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		09/15/23 03:00	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-77 **Lab ID: 92686679019** Collected: 09/12/23 11:06 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/15/23 03:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-83 **Lab ID: 92686679020** Collected: 09/12/23 13:03 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.11**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 21:35	7439-89-6	
Potassium	**2.2**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 21:35	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 21:35	7440-23-5	
Calcium	**32.4**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 21:35	7440-70-2	
Magnesium	**8.3**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 21:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/14/23 11:00	09/25/23 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/25/23 16:44	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/25/23 16:44	7440-39-3	
Beryllium	**0.00038J**	mg/L	0.00050	0.000054	1	09/14/23 11:00	09/25/23 16:44	7440-41-7	
Boron	**0.29**	mg/L	0.040	0.0086	1	09/14/23 11:00	09/25/23 16:44	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/25/23 16:44	7440-43-9	
Chromium	**0.0022J**	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/25/23 16:44	7440-47-3	
Cobalt	**0.015**	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/25/23 16:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/25/23 16:44	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	09/14/23 11:00	09/25/23 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/25/23 16:44	7439-98-7	
Selenium	**0.020**	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/25/23 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/25/23 16:44	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	10/02/23 12:15	10/02/23 17:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**204**	mg/L	25.0	25.0	1		09/18/23 12:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**41.6**	mg/L	5.0	5.0	1		09/15/23 18:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/15/23 18:26		
Alkalinity, Total as CaCO3	**41.6**	mg/L	5.0	5.0	1		09/15/23 18:26		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/15/23 04:11	16887-00-6	
Fluoride	**0.087J**	mg/L	0.10	0.050	1		09/15/23 04:11	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-83 **Lab ID: 92686679020** Collected: 09/12/23 13:03 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**95.7**	mg/L	2.0	1.0	2		09/15/23 13:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-88 **Lab ID: 92686679021** Collected: 09/12/23 14:10 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.29**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 21:40	7439-89-6	
Potassium	**10.9**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 21:40	7440-09-7	M1
Sodium	**26.4**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 21:40	7440-23-5	
Calcium	**102**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 21:40	7440-70-2	M1
Magnesium	**34.7**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 21:40	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	0.0012	1	09/14/23 11:00	09/25/23 16:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/25/23 16:47	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/25/23 16:47	7440-39-3	
Beryllium	**0.0014**	mg/L	0.00050	0.000054	1	09/14/23 11:00	09/25/23 16:47	7440-41-7	
Boron	**1.9**	mg/L	0.040	0.0086	1	09/14/23 11:00	09/25/23 16:47	7440-42-8	
Cadmium	**0.0026**	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/25/23 16:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/25/23 16:47	7440-47-3	
Cobalt	**0.0022J**	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/25/23 16:47	7440-48-4	
Lead	**0.00090J**	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/25/23 16:47	7439-92-1	
Lithium	**0.0040J**	mg/L	0.030	0.00073	1	09/14/23 11:00	09/25/23 16:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/25/23 16:47	7439-98-7	
Selenium	**0.0027J**	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/25/23 16:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/25/23 16:47	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	10/02/23 12:15	10/02/23 17:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**752**	mg/L	25.0	25.0	1		09/18/23 12:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.1**	mg/L	5.0	5.0	1		09/15/23 18:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/15/23 18:34		
Alkalinity, Total as CaCO3	**13.1**	mg/L	5.0	5.0	1		09/15/23 18:34		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.1**	mg/L	1.0	0.60	1		09/15/23 04:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/23 04:26	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-88 **Lab ID: 92686679021** Collected: 09/12/23 14:10 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**449**	mg/L	9.0	4.5	9		09/15/23 13:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-107D **Lab ID: 92686679022** Collected: 09/12/23 09:46 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.36**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:11	7439-89-6	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:11	7440-09-7	
Sodium	**19.1**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:11	7440-23-5	
Calcium	**80.8**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:11	7440-70-2	
Magnesium	**27.9**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:11	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	0.0012	1	09/14/23 11:00	09/25/23 16:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/25/23 16:51	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/25/23 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/14/23 11:00	09/25/23 16:51	7440-41-7	
Boron	**11.3**	mg/L	0.40	0.086	10	09/14/23 11:00	09/26/23 14:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/25/23 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/25/23 16:51	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/25/23 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/25/23 16:51	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00073	1	09/14/23 11:00	09/25/23 16:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/25/23 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/25/23 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/25/23 16:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**560**	mg/L	25.0	25.0	1		09/18/23 12:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.4**	mg/L	5.0	5.0	1		09/15/23 18:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/15/23 18:51		
Alkalinity, Total as CaCO3	**28.4**	mg/L	5.0	5.0	1		09/15/23 18:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.1**	mg/L	1.0	0.60	1		09/15/23 04:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/23 04:40	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-107D **Lab ID: 92686679022** Collected: 09/12/23 09:46 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**308**	mg/L	6.0	3.0	6		09/15/23 13:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-120D **Lab ID: 92686679023** Collected: 09/12/23 09:38 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.14**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:17	7439-89-6	
Potassium	**8.0**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:17	7440-09-7	
Sodium	**27.5**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:17	7440-23-5	
Calcium	**110**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:17	7440-70-2	
Magnesium	**22.5**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:17	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	0.0012	1	09/14/23 11:00	09/25/23 16:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/25/23 16:55	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/25/23 16:55	7440-39-3	
Beryllium	**0.00066**	mg/L	0.00050	0.000054	1	09/14/23 11:00	09/25/23 16:55	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.0086	1	09/14/23 11:00	09/25/23 16:55	7440-42-8	
Cadmium	**0.0010**	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/25/23 16:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/25/23 16:55	7440-47-3	
Cobalt	**0.0022J**	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/25/23 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/25/23 16:55	7439-92-1	
Lithium	**0.044**	mg/L	0.030	0.00073	1	09/14/23 11:00	09/25/23 16:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/25/23 16:55	7439-98-7	
Selenium	**0.0052**	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/25/23 16:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/25/23 16:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 17:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**743**	mg/L	25.0	25.0	1		09/18/23 12:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.6**	mg/L	5.0	5.0	1		09/18/23 15:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/18/23 15:29		
Alkalinity, Total as CaCO3	**26.6**	mg/L	5.0	5.0	1		09/18/23 15:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.0**	mg/L	1.0	0.60	1		09/15/23 04:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/15/23 04:54	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-120D **Lab ID: 92686679023** Collected: 09/12/23 09:38 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**420**	mg/L	9.0	4.5	9		09/15/23 13:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-104D **Lab ID: 92686679024** Collected: 09/13/23 12:34 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**10.7**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:32	7439-89-6	
Potassium	**8.4**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:32	7440-09-7	
Sodium	**19.8**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:32	7440-23-5	
Calcium	**152**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:32	7440-70-2	
Magnesium	**25.6**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:32	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	0.0012	1	09/19/23 11:10	09/26/23 18:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:02	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:02	7440-39-3	
Beryllium	**0.0016**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:02	7440-41-7	
Boron	**0.26**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:02	7440-47-3	
Cobalt	**0.18**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:02	7439-92-1	
Lithium	**0.040**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:02	7439-93-2	
Molybdenum	**0.00092J**	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:02	7439-98-7	
Selenium	**0.0016J**	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:02	7782-49-2	
Thallium	**0.00028J**	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 12:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**839**	mg/L	25.0	25.0	1		09/20/23 20:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**73.0**	mg/L	5.0	5.0	1		09/19/23 16:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:04		
Alkalinity, Total as CaCO3	**73.0**	mg/L	5.0	5.0	1		09/19/23 16:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.7**	mg/L	1.0	0.60	1		09/19/23 10:26	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		09/19/23 10:26	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-104D **Lab ID: 92686679024** Collected: 09/13/23 12:34 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**472**	mg/L	10.0	5.0	10		09/17/23 00:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-108D **Lab ID: 92686679025** Collected: 09/13/23 13:54 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.38**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:38	7439-89-6	
Potassium	**5.6**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:38	7440-09-7	
Sodium	**18.1**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:38	7440-23-5	
Calcium	**83.9**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:38	7440-70-2	
Magnesium	**32.5**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/27/23 12:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:19	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:19	7440-41-7	
Boron	**6.4**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:19	7440-47-3	
Cobalt	**0.00045J**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:19	7440-48-4	
Lead	**0.0025**	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:19	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:19	7439-93-2	
Molybdenum	**0.00078J**	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**607**	mg/L	25.0	25.0	1		09/20/23 20:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.1**	mg/L	5.0	5.0	1		09/19/23 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:12		
Alkalinity, Total as CaCO3	**28.1**	mg/L	5.0	5.0	1		09/19/23 16:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**29.9**	mg/L	1.0	0.60	1		09/19/23 10:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/23 10:40	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-108D **Lab ID: 92686679025** Collected: 09/13/23 13:54 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**296**	mg/L	6.0	3.0	6		09/17/23 00:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-111D **Lab ID: 92686679026** Collected: 09/13/23 12:42 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.1**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:43	7439-89-6	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:43	7440-09-7	
Sodium	**39.8**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:43	7440-23-5	
Calcium	**93.4**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:43	7440-70-2	
Magnesium	**8.5**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:43	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0016J**	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/26/23 18:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:23	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:23	7440-41-7	
Boron	**0.23**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:23	7439-92-1	
Lithium	**0.019J**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:23	7439-93-2	
Molybdenum	**0.0071J**	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**506**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	5.0	5.0	1		09/19/23 16:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:19		
Alkalinity, Total as CaCO3	**115**	mg/L	5.0	5.0	1		09/19/23 16:19		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.036J**	mg/L	0.10	0.022	1		09/20/23 02:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.2**	mg/L	1.0	0.60	1		09/19/23 10:54	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		09/19/23 10:54	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-111D **Lab ID: 92686679026** Collected: 09/13/23 12:42 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**233**	mg/L	5.0	2.5	5		09/17/23 01:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-125D **Lab ID: 92686679027** Collected: 09/14/23 10:00 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**4.8**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:48	7439-89-6	
Potassium	**10.4**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:48	7440-09-7	
Sodium	**42.0**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:48	7440-23-5	
Calcium	**140**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:48	7440-70-2	
Magnesium	**26.8**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:48	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	0.0012	1	09/19/23 11:10	09/26/23 18:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:27	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:27	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:27	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:27	7440-47-3	
Cobalt	**0.0052**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:27	7440-48-4	
Lead	**0.00015J**	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:27	7439-92-1	
Lithium	**0.031**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:27	7439-93-2	
Molybdenum	**0.0034J**	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**853**	mg/L	25.0	25.0	1		09/20/23 15:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**75.6**	mg/L	5.0	5.0	1		09/21/23 14:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/21/23 14:06		
Alkalinity, Total as CaCO3	**75.6**	mg/L	5.0	5.0	1		09/21/23 14:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.9**	mg/L	1.0	0.60	1		09/19/23 11:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/19/23 11:08	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Sample: MCD-B-125D **Lab ID: 92686679027** Collected: 09/14/23 10:00 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**465**	mg/L	10.0	5.0	10		09/17/23 01:22	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798622
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

METHOD BLANK: 4136598 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/11/23 20:25	
Iron	mg/L	ND	0.040	0.025	09/11/23 20:25	
Magnesium	mg/L	ND	0.050	0.012	09/11/23 20:25	
Potassium	mg/L	ND	0.50	0.15	09/11/23 20:25	
Sodium	mg/L	ND	1.0	0.58	09/11/23 20:25	

LABORATORY CONTROL SAMPLE: 4136599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136986 4136987

Parameter	Units	92686676002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.0	1	1	8.2	7.6	115	58	75-125	7	20	M1
Iron	mg/L	0.091	1	1	1.2	1.1	108	106	75-125	2	20	
Magnesium	mg/L	0.98	1	1	2.1	2.0	108	101	75-125	4	20	
Potassium	mg/L	0.77	1	1	1.8	1.8	104	101	75-125	1	20	
Sodium	mg/L	8.8	1	1	9.9	9.2	117	42	75-125	8	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798869
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

METHOD BLANK: 4137528 Matrix: Water
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/23 10:22	
Iron	mg/L	ND	0.040	0.025	09/13/23 10:22	
Magnesium	mg/L	ND	0.050	0.012	09/13/23 10:22	
Potassium	mg/L	ND	0.50	0.15	09/13/23 10:22	
Sodium	mg/L	ND	1.0	0.58	09/13/23 10:22	

LABORATORY CONTROL SAMPLE: 4137529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137530 4137531

Parameter	Units	92686941001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	71.8	1	1	68.4	71.2	-338	-59	75-125	4	20	M1
Iron	mg/L	2.1	1	1	3.0	3.0	86	93	75-125	2	20	
Magnesium	mg/L	24.6	1	1	24.1	25.0	-53	33	75-125	4	20	M1
Potassium	mg/L	8.2	1	1	8.7	9.1	42	82	75-125	5	20	M1
Sodium	mg/L	20.0	1	1	19.8	20.6	-19	59	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799401
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

METHOD BLANK: 4140560 Matrix: Water
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/17/23 11:47	
Iron	mg/L	ND	0.040	0.025	09/17/23 11:47	
Magnesium	mg/L	ND	0.050	0.012	09/17/23 11:47	
Potassium	mg/L	ND	0.50	0.15	09/17/23 11:47	
Sodium	mg/L	ND	1.0	0.58	09/17/23 11:47	

LABORATORY CONTROL SAMPLE: 4140561

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	105	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.94	94	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140562 4140563

Parameter	Units	92686947010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.8	1	1	32.4	31.7	155	93	75-125	2	20	M1
Iron	mg/L	26.4	1	1	27.9	27.5	149	104	75-125	2	20	M1
Magnesium	mg/L	18.1	1	1	19.3	19.0	125	92	75-125	2	20	
Potassium	mg/L	8.5	1	1	9.6	9.5	115	98	75-125	2	20	
Sodium	mg/L	8.0	1	1	9.1	8.9	106	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 802701
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023, 92686679024, 92686679025, 92686679026, 92686679027

METHOD BLANK: 4157628 Matrix: Water
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023, 92686679024, 92686679025, 92686679026, 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/02/23 21:19	
Iron	mg/L	ND	0.040	0.025	10/02/23 21:19	
Magnesium	mg/L	ND	0.050	0.012	10/02/23 21:19	
Potassium	mg/L	ND	0.50	0.15	10/02/23 21:19	
Sodium	mg/L	ND	1.0	0.58	10/02/23 21:19	

LABORATORY CONTROL SAMPLE: 4157629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4158650 4158651

Parameter	Units	92686679021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	102	1	1	101	104	-23	236	75-125	3	20	M1
Iron	mg/L	0.29	1	1	1.2	1.3	95	98	75-125	3	20	
Magnesium	mg/L	34.7	1	1	35.3	36.0	51	129	75-125	2	20	M1
Potassium	mg/L	10.9	1	1	11.7	12.2	88	131	75-125	4	20	M1
Sodium	mg/L	26.4	1	1	27.2	27.5	79	115	75-125	1	20	

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(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798623
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

METHOD BLANK: 4136603 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/13/23 12:38	
Arsenic	mg/L	ND	0.0050	0.0037	09/13/23 12:38	
Barium	mg/L	ND	0.0050	0.00067	09/14/23 16:38	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/23 12:38	
Boron	mg/L	ND	0.040	0.0086	09/13/23 12:38	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/23 12:38	
Chromium	mg/L	ND	0.0050	0.0011	09/13/23 12:38	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/23 12:38	
Lead	mg/L	ND	0.0010	0.00012	09/13/23 12:38	
Lithium	mg/L	ND	0.030	0.00073	09/13/23 12:38	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/23 12:38	
Selenium	mg/L	ND	0.0050	0.0014	09/13/23 12:38	
Thallium	mg/L	ND	0.0010	0.00018	09/13/23 12:38	

LABORATORY CONTROL SAMPLE: 4136604

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	0.097	97	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	0.10	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	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136605 4136606

Parameter	Units	92686676001 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	0.10	0.10	104	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136605 4136606

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.041	0.1	0.1	0.15	0.15	105	107	75-125	2	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	102	102	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.098	97	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.096	97	96	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	2	20	
Thallium	mg/L	0.00053J	0.1	0.1	0.095	0.095	94	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798903
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

METHOD BLANK: 4137724 Matrix: Water
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/14/23 16:50	
Arsenic	mg/L	ND	0.0050	0.0037	09/14/23 16:50	
Barium	mg/L	ND	0.0050	0.00067	09/14/23 16:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/23 16:50	
Boron	mg/L	ND	0.040	0.0086	09/14/23 16:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/23 16:50	
Chromium	mg/L	ND	0.0050	0.0011	09/14/23 16:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/23 16:50	
Lead	mg/L	ND	0.0010	0.00012	09/14/23 16:50	
Lithium	mg/L	ND	0.030	0.00073	09/14/23 16:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/23 16:50	
Selenium	mg/L	ND	0.0050	0.0014	09/14/23 16:50	
Thallium	mg/L	ND	0.0010	0.00018	09/14/23 16:50	

LABORATORY CONTROL SAMPLE: 4137725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137726 4137727

Parameter	Units	92686941002 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	0.11	0.10	110	104	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.099	106	99	75-125	7	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137726 4137727

Parameter	Units	92686941002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.0027J	0.1	0.1	0.11	0.10	105	100	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	4	20	
Boron	mg/L	0.24	1	1	1.3	1.2	103	99	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	107	100	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.094	102	93	75-125	8	20	
Cobalt	mg/L	0.00040J	0.1	0.1	0.10	0.094	101	94	75-125	8	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.091	95	91	75-125	4	20	
Lithium	mg/L	0.0043J	0.1	0.1	0.10	0.099	100	94	75-125	6	20	
Molybdenum	mg/L	0.026	0.1	0.1	0.13	0.12	105	97	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.098	104	98	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.089	92	89	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799426
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

METHOD BLANK: 4140688 Matrix: Water
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0020J	0.0030	0.0012	09/20/23 13:49	
Arsenic	mg/L	ND	0.0050	0.0037	09/20/23 13:49	
Barium	mg/L	ND	0.0050	0.00067	09/20/23 13:49	
Beryllium	mg/L	ND	0.00050	0.000054	09/20/23 13:49	
Boron	mg/L	ND	0.040	0.0086	09/20/23 13:49	
Cadmium	mg/L	ND	0.00050	0.00011	09/20/23 13:49	
Chromium	mg/L	ND	0.0050	0.0011	09/20/23 13:49	
Cobalt	mg/L	ND	0.0050	0.00039	09/20/23 13:49	
Lead	mg/L	ND	0.0010	0.00012	09/20/23 13:49	
Lithium	mg/L	ND	0.030	0.00073	09/20/23 13:49	
Molybdenum	mg/L	ND	0.010	0.00074	09/20/23 13:49	
Selenium	mg/L	ND	0.0050	0.0014	09/20/23 13:49	
Thallium	mg/L	ND	0.0010	0.00018	09/20/23 13:49	

LABORATORY CONTROL SAMPLE: 4140689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140690 4140691

Parameter	Units	92686947009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0018J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	0.029	0.1	0.1	0.11	0.11	83	84	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140690 4140691

Parameter	Units	92686947009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.014	0.1	0.1	0.12	0.11	101	100	75-125	2	20	
Beryllium	mg/L	0.0067	0.1	0.1	0.074	0.073	67	67	75-125	0	20	M1
Boron	mg/L	2.5	1	1	3.0	3.1	55	59	75-125	1	20	M1
Cadmium	mg/L	0.0038	0.1	0.1	0.098	0.098	94	95	75-125	1	20	
Chromium	mg/L	0.0026J	0.1	0.1	0.081	0.081	79	78	75-125	0	20	
Cobalt	mg/L	1.4	0.1	0.1	1.5	1.5	51	71	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096J	0.093J	94	91	75-125		20	
Lithium	mg/L	0.011J	0.1	0.1	0.088	0.088	77	77	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	1	20	
Selenium	mg/L	0.14	0.1	0.1	0.22	0.22	80	82	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799667
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

METHOD BLANK: 4141846 Matrix: Water
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/25/23 16:20	
Arsenic	mg/L	ND	0.0050	0.0037	09/25/23 16:20	
Barium	mg/L	ND	0.0050	0.00067	09/25/23 16:20	
Beryllium	mg/L	ND	0.00050	0.000054	09/25/23 16:20	
Boron	mg/L	ND	0.040	0.0086	09/25/23 16:20	
Cadmium	mg/L	ND	0.00050	0.00011	09/25/23 16:20	
Chromium	mg/L	ND	0.0050	0.0011	09/25/23 16:20	
Cobalt	mg/L	ND	0.0050	0.00039	09/25/23 16:20	
Lead	mg/L	ND	0.0010	0.00012	09/25/23 16:20	
Lithium	mg/L	ND	0.030	0.00073	09/25/23 16:20	
Molybdenum	mg/L	ND	0.010	0.00074	09/25/23 16:20	
Selenium	mg/L	ND	0.0050	0.0014	09/25/23 16:20	
Thallium	mg/L	ND	0.0010	0.00018	09/25/23 16:20	

LABORATORY CONTROL SAMPLE: 4141847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141848 4141849

Parameter	Units	92686679019 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	0.11	0.11	109	107	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	99	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141848 4141849

Parameter	Units	92686679019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.12	0.1	0.1	0.22	0.21	101	92	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.086	0.085	86	85	75-125	0	20	
Boron	mg/L	0.26	1	1	1.1	1.1	84	82	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	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	0.10	0.10	103	101	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.089	0.090	89	89	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800427
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

METHOD BLANK: 4145841 Matrix: Water
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/26/23 17:54	
Arsenic	mg/L	ND	0.0050	0.0037	09/26/23 17:54	
Barium	mg/L	ND	0.0050	0.00067	09/26/23 17:54	
Beryllium	mg/L	ND	0.00050	0.000054	09/26/23 17:54	
Boron	mg/L	ND	0.040	0.0086	09/26/23 17:54	
Cadmium	mg/L	ND	0.00050	0.00011	09/26/23 17:54	
Chromium	mg/L	ND	0.0050	0.0011	09/26/23 17:54	
Cobalt	mg/L	ND	0.0050	0.00039	09/26/23 17:54	
Lead	mg/L	ND	0.0010	0.00012	09/26/23 17:54	
Lithium	mg/L	ND	0.030	0.00073	09/26/23 17:54	
Molybdenum	mg/L	ND	0.010	0.00074	09/26/23 17:54	
Selenium	mg/L	ND	0.0050	0.0014	09/26/23 17:54	
Thallium	mg/L	ND	0.0010	0.00018	09/26/23 17:54	

LABORATORY CONTROL SAMPLE: 4145842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.11	108	80-120	
Chromium	mg/L	0.1	0.11	108	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.11	108	80-120	
Lithium	mg/L	0.1	0.11	109	80-120	
Molybdenum	mg/L	0.1	0.11	109	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145843 4145844

Parameter	Units	92686679024 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	0.12	0.12	122	118	75-125	4	20	
Arsenic	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 McD AP-234 Assessment
Pace Project No.: 92686679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145843 4145844

Parameter	Units	92686679024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.020	0.1	0.1	0.14	0.13	118	112	75-125	4	20	
Beryllium	mg/L	0.0016	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Boron	mg/L	0.26	1	1	1.3	1.3	103	101	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	108	109	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	0.18	0.1	0.1	0.28	0.27	107	94	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Lithium	mg/L	0.040	0.1	0.1	0.14	0.14	104	99	75-125	3	20	
Molybdenum	mg/L	0.00092J	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.11	0.11	113	112	75-125	1	20	
Thallium	mg/L	0.00028J	0.1	0.1	0.10	0.10	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 801878
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

METHOD BLANK: 4153671 Matrix: Water
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/26/23 12:36	

LABORATORY CONTROL SAMPLE: 4153672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4153673 4153674

Parameter	Units	92686679024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 803461 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012, 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018, 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

METHOD BLANK: 4161104 — Matrix: Water

Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012, 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018, 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/02/23 16:27	

LABORATORY CONTROL SAMPLE: 4161105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4161106 4161107

Parameter	Units	92686676003 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	0.0027	0.0026	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798883 | 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: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

METHOD BLANK: 4137624 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/23 13:25	

LABORATORY CONTROL SAMPLE: 4137625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	80-120	

SAMPLE DUPLICATE: 4137626

Parameter	Units	92686830001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1540	1500	3	10	

SAMPLE DUPLICATE: 4137627

Parameter	Units	92686679004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	174	17	10	D6

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799142 | 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: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

METHOD BLANK: 4138899 Matrix: Water
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/23 11:42	

LABORATORY CONTROL SAMPLE: 4138900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 4138901

Parameter	Units	92686677006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	253	259	2	10	

SAMPLE DUPLICATE: 4138902

Parameter	Units	92687108002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	101	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799378
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679013

METHOD BLANK: 4140337 Matrix: Water
Associated Lab Samples: 92686679013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/13/23 11:44	

LABORATORY CONTROL SAMPLE: 4140338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 4140339

Parameter	Units	92686947002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	451	472	5	10	

SAMPLE DUPLICATE: 4140340

Parameter	Units	92686947009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	960	846	13	10	D6

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799704
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

METHOD BLANK: 4142053 Matrix: Water
Associated Lab Samples: 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/14/23 13:33	

LABORATORY CONTROL SAMPLE: 4142054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	426	106	80-120	

SAMPLE DUPLICATE: 4142055

Parameter	Units	92686679014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	612	610	0	10	

SAMPLE DUPLICATE: 4142056

Parameter	Units	92687798003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800282 | 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: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

METHOD BLANK: 4144980 Matrix: Water
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/18/23 12:43	

LABORATORY CONTROL SAMPLE: 4144981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	80-120	

SAMPLE DUPLICATE: 4144982

Parameter	Units	92687223010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4144983

Parameter	Units	92686679022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	560	567	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800804
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686679024, 92686679025, 92686679026

METHOD BLANK: 4147886 Matrix: Water
Associated Lab Samples: 92686679024, 92686679025, 92686679026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/20/23 20:07	

LABORATORY CONTROL SAMPLE: 4147887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	455	114	80-120	

SAMPLE DUPLICATE: 4147888

Parameter	Units	92688018001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	290000 ug/L	288	1	10	

SAMPLE DUPLICATE: 4147889

Parameter	Units	92688018017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	490000 ug/L	466	5	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800811
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686679027

METHOD BLANK: 4147923 Matrix: Water
Associated Lab Samples: 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/20/23 15:15	

LABORATORY CONTROL SAMPLE: 4147924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 4147925

Parameter	Units	92687866001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	104	110	6	10	

SAMPLE DUPLICATE: 4147926

Parameter	Units	92686679027 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	853	873	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800476
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

METHOD BLANK: 4146097 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	09/20/23 13:34	

LABORATORY CONTROL SAMPLE: 4146098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0020	81	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4146099 4146100

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798846 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

METHOD BLANK: 4137453 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/23 15:34	

LABORATORY CONTROL SAMPLE: 4137454

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: 4137455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137456 4137457

Parameter	Units	92686679001 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	9.5	50	50	60.9	61.8	103	105	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137458 4137459

Parameter	Units	92686836005 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	15.3	50	50	67.7	68.0	105	105	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799173
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679007, 92686679008, 92686679011, 92686679012

METHOD BLANK: 4139096 Matrix: Water
Associated Lab Samples: 92686679007, 92686679008, 92686679011, 92686679012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/12/23 15:04	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/12/23 15:04	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/12/23 15:04	

LABORATORY CONTROL SAMPLE: 4139097

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: 4139098

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: 4139099 4139100

Parameter	Units	92686679012 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	51.2	51.0	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4139101 4139102

Parameter	Units	92686677009 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	96.9	50	50	148	148	103	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799657
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679009, 92686679010

METHOD BLANK: 4141803 Matrix: Water
Associated Lab Samples: 92686679009, 92686679010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/23 11:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 11:08	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 11:08	

LABORATORY CONTROL SAMPLE: 4141804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4141805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141806 4141807

Parameter	Units	92686947003 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	17.5	50	50	70.9	70.2	107	105	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141808 4141809

Parameter	Units	92686947004 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	55.2	55.3	104	104	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799684 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

METHOD BLANK: 4141941 Matrix: Water
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/23 14:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 14:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 14:09	

LABORATORY CONTROL SAMPLE: 4141942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

LABORATORY CONTROL SAMPLE: 4141943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141944 4141945

Parameter	Units	92686679018 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	51.4	51.4	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141946 4141947

Parameter	Units	92687508001 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	153	50	50	207	216	107	125	80-120	4	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799970 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022

METHOD BLANK: 4143554 Matrix: Water
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/15/23 15:54	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/15/23 15:54	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/15/23 15:54	

LABORATORY CONTROL SAMPLE: 4143555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4143556

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: 4143557 4143558

Parameter	Units	92686679021 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	13.1	50	50	66.9	67.5	107	109	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143559 4143560

Parameter	Units	92686679022 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	28.4	50	50	80.2	81.5	104	106	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800267
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679023

METHOD BLANK: 4144892 Matrix: Water
Associated Lab Samples: 92686679023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/18/23 13:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/18/23 13:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/18/23 13:51	

LABORATORY CONTROL SAMPLE: 4144893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE: 4144894

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: 4144895 4144896

Parameter	Units	92687758002 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	38.2	50	50	87.5	87.8	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4144897 4144898

Parameter	Units	92687758004 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	92.6	50	50	143	144	102	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800448
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679024, 92686679025, 92686679026

METHOD BLANK: 4145920 Matrix: Water
Associated Lab Samples: 92686679024, 92686679025, 92686679026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/19/23 14:10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/23 14:10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/23 14:10	

LABORATORY CONTROL SAMPLE: 4145921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

LABORATORY CONTROL SAMPLE: 4145922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145923 4145924

Parameter	Units	92686947024 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	6.7	50	50	60.8	61.0	108	109	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145925 4145926

Parameter	Units	92686947025 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	42.0	41.6	84	83	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800851
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679027

METHOD BLANK: 4148204 Matrix: Water
Associated Lab Samples: 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/21/23 11:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/23 11:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/21/23 11:51	

LABORATORY CONTROL SAMPLE: 4148205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4149487

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: 4148206 4148207

Parameter	Units	92688066005 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	85.1	50	50	135	134	100	98	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4148208 4148209

Parameter	Units	92688280008 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	81.0	50	50	137	135	113	108	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798662
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

METHOD BLANK: 4136899 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003, 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/09/23 04:31	

LABORATORY CONTROL SAMPLE: 4136900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136901 4136902

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.56	106	111	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136903 4136904

Parameter	Units	92686861001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.38	0.37	76	75	80-120	2	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799296
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679007, 92686679008, 92686679011, 92686679012

METHOD BLANK: 4140098 Matrix: Water
Associated Lab Samples: 92686679007, 92686679008, 92686679011, 92686679012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/13/23 02:23	

LABORATORY CONTROL SAMPLE: 4140099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140102 4140103

Parameter	Units	92686679007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.44	0.43	87	85	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140133 4140134

Parameter	Units	92686941002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.49	104	97	80-120	7	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799297
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679009, 92686679010

METHOD BLANK: 4140104 Matrix: Water
Associated Lab Samples: 92686679009, 92686679010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/13/23 02:36	

LABORATORY CONTROL SAMPLE: 4140105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140106 4140107

Parameter	Units	92686677011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.53	100	107	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140108 4140109

Parameter	Units	92686947008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	104	102	80-120	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799849
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

METHOD BLANK: 4143142 Matrix: Water
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/15/23 04:50	

LABORATORY CONTROL SAMPLE: 4143143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143146 4143147

Parameter	Units	92686679015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.54	105	107	80-120	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143167 4143168

Parameter	Units	92686947012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.49	96	96	80-120	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799850 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

METHOD BLANK: 4143148 Matrix: Water
Associated Lab Samples: 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/15/23 05:02	

LABORATORY CONTROL SAMPLE: 4143149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143150 4143151

Parameter	Units	92687636005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.50	97	98	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143169 4143170

Parameter	Units	92687839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.52	101	100	80-120	1	10	

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(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800665
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

METHOD BLANK: 4147249 Matrix: Water
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/20/23 02:40	

LABORATORY CONTROL SAMPLE: 4147250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4147268 4147269

Parameter	Units	92688066005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	104	107	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4147270 4147271

Parameter	Units	92686947023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	103	101	80-120	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798687
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679001, 92686679002, 92686679003

METHOD BLANK: 4136953 Matrix: Water
Associated Lab Samples: 92686679001, 92686679002, 92686679003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/23 13:26	
Fluoride	mg/L	ND	0.10	0.050	09/09/23 13:26	
Sulfate	mg/L	ND	1.0	0.50	09/09/23 13:26	

LABORATORY CONTROL SAMPLE: 4136954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136955 4136956

Parameter	Units	92686882001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.0	50	50	75.9	75.9	106	106	90-110	0	10	
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	101	101	90-110	1	10	
Sulfate	mg/L	13.2	50	50	66.5	66.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136957 4136958

Parameter	Units	92686872001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	840	50	50	885	882	89	82	90-110	0	10	M1
Fluoride	mg/L	15.2	2.5	2.5	17.5	17.7	92	98	90-110	1	10	
Sulfate	mg/L	55.9	50	50	93.3	93.1	75	74	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 798688
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679004, 92686679005, 92686679006

METHOD BLANK: 4136959 Matrix: Water
Associated Lab Samples: 92686679004, 92686679005, 92686679006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/23 21:04	
Fluoride	mg/L	ND	0.10	0.050	09/09/23 21:04	
Sulfate	mg/L	ND	1.0	0.50	09/09/23 21:04	

LABORATORY CONTROL SAMPLE: 4136960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136961 4136962

Parameter	Units	92686679004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.8	57.1	107	108	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	102	104	90-110	1	10	
Sulfate	mg/L	53.9	50	50	100	99.4	92	91	90-110	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799070
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

METHOD BLANK: 4138708 Matrix: Water
Associated Lab Samples: 92686679007, 92686679008, 92686679009, 92686679010, 92686679011, 92686679012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/23 12:51	
Fluoride	mg/L	ND	0.10	0.050	09/12/23 12:51	
Sulfate	mg/L	ND	1.0	0.50	09/12/23 12:51	

LABORATORY CONTROL SAMPLE: 4138709

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	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138710 4138711

Parameter	Units	92687087001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	59.4	59.8	103	104	90-110	1	10	
Fluoride	mg/L	0.63	2.5	2.5	3.5	3.5	113	115	90-110	1	10	M1
Sulfate	mg/L	9.9	50	50	60.7	61.4	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138712 4138713

Parameter	Units	92686677010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.1	53.1	104	106	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	0	10	
Sulfate	mg/L	ND	50	50	52.7	54.0	105	108	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 799599
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018, 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

METHOD BLANK: 4141628 Matrix: Water
Associated Lab Samples: 92686679013, 92686679014, 92686679015, 92686679016, 92686679017, 92686679018, 92686679019, 92686679020, 92686679021, 92686679022, 92686679023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/23 22:23	
Fluoride	mg/L	ND	0.10	0.050	09/14/23 22:23	
Sulfate	mg/L	ND	1.0	0.50	09/14/23 22:23	

LABORATORY CONTROL SAMPLE: 4141629

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	103	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141630 4141631

Parameter	Units	92686947017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.8	49.9	106	100	90-110	6	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	107	104	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.9	49.9	106	100	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141632 4141633

Parameter	Units	92686679019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.0	50	50	57.7	54.0	107	100	90-110	7	10	
Fluoride	mg/L	0.069J	2.5	2.5	2.7	2.5	104	97	90-110	7	10	
Sulfate	mg/L	ND	50	50	54.2	50.4	108	100	90-110	7	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

QC Batch: 800154
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

METHOD BLANK: 4144610 Matrix: Water
Associated Lab Samples: 92686679024, 92686679025, 92686679026, 92686679027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/16/23 16:00	
Fluoride	mg/L	ND	0.10	0.050	09/16/23 16:00	
Sulfate	mg/L	ND	1.0	0.50	09/16/23 16:00	

LABORATORY CONTROL SAMPLE: 4144611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4144612 4144613

Parameter	Units	92687781001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.9	50.9	105	101	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	105	99	90-110	5	10	
Sulfate	mg/L	ND	50	50	52.9	50.8	106	101	90-110	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4144614 4144615

Parameter	Units	92687944002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	652	50	50	802	686	301	69	90-110	16	10	M1,R1
Fluoride	mg/L	0.25	2.5	2.5	2.8	2.7	103	98	90-110	5	10	
Sulfate	mg/L	5.8	50	50	59.0	56.3	106	101	90-110	5	10	

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QUALIFIERS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

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.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686679001	**MCD-B-93**	EPA 3010A	798622	EPA 6010D	798709
92686679002	**MCD-B-92**	EPA 3010A	798622	EPA 6010D	798709
92686679003	**MCD-B-97**	EPA 3010A	798622	EPA 6010D	798709
92686679004	**MCD-B-98**	EPA 3010A	798622	EPA 6010D	798709
92686679005	**MCD-AP234-FB-4**	EPA 3010A	798622	EPA 6010D	798709
92686679006	**MCD-AP234-EB-4**	EPA 3010A	798622	EPA 6010D	798709
92686679007	**MCD-B-63**	EPA 3010A	798869	EPA 6010D	798954
92686679008	**MCD-B-122D**	EPA 3010A	798869	EPA 6010D	798954
92686679009	**MCD-B-101D**	EPA 3010A	798869	EPA 6010D	798954
92686679010	**MCD-B-56**	EPA 3010A	798869	EPA 6010D	798954
92686679011	**MCD-AP234-FD-5**	EPA 3010A	798869	EPA 6010D	798954
92686679012	**MCD-AP234-FB-5**	EPA 3010A	798869	EPA 6010D	798954
92686679013	**MCD-B-102D**	EPA 3010A	799401	EPA 6010D	799461
92686679014	**MCD-B-82**	EPA 3010A	799401	EPA 6010D	799461
92686679015	**MCD-B-66**	EPA 3010A	799401	EPA 6010D	799461
92686679016	**MCD-B-106D**	EPA 3010A	799401	EPA 6010D	799461
92686679017	**MCD-AP234-FD-4**	EPA 3010A	799401	EPA 6010D	799461
92686679018	**MCD-AP234-EB-5**	EPA 3010A	799401	EPA 6010D	799461
92686679019	**MCD-B-77**	EPA 3010A	802701	EPA 6010D	802875
92686679020	**MCD-B-83**	EPA 3010A	802701	EPA 6010D	802875
92686679021	**MCD-B-88**	EPA 3010A	802701	EPA 6010D	802875
92686679022	**MCD-B-107D**	EPA 3010A	802701	EPA 6010D	802875
92686679023	**MCD-B-120D**	EPA 3010A	802701	EPA 6010D	802875
92686679024	**MCD-B-104D**	EPA 3010A	802701	EPA 6010D	802875
92686679025	**MCD-B-108D**	EPA 3010A	802701	EPA 6010D	802875
92686679026	**MCD-B-111D**	EPA 3010A	802701	EPA 6010D	802875
92686679027	**MCD-B-125D**	EPA 3010A	802701	EPA 6010D	802875
92686679001	**MCD-B-93**	EPA 3005A	798623	EPA 6020B	798699
92686679002	**MCD-B-92**	EPA 3005A	798623	EPA 6020B	798699
92686679003	**MCD-B-97**	EPA 3005A	798623	EPA 6020B	798699
92686679004	**MCD-B-98**	EPA 3005A	798623	EPA 6020B	798699
92686679005	**MCD-AP234-FB-4**	EPA 3005A	798623	EPA 6020B	798699
92686679006	**MCD-AP234-EB-4**	EPA 3005A	798623	EPA 6020B	798699
92686679007	**MCD-B-63**	EPA 3005A	798903	EPA 6020B	798992
92686679008	**MCD-B-122D**	EPA 3005A	798903	EPA 6020B	798992
92686679009	**MCD-B-101D**	EPA 3005A	798903	EPA 6020B	798992
92686679010	**MCD-B-56**	EPA 3005A	798903	EPA 6020B	798992
92686679011	**MCD-AP234-FD-5**	EPA 3005A	798903	EPA 6020B	798992
92686679012	**MCD-AP234-FB-5**	EPA 3005A	798903	EPA 6020B	798992
92686679013	**MCD-B-102D**	EPA 3005A	799426	EPA 6020B	799535
92686679014	**MCD-B-82**	EPA 3005A	799426	EPA 6020B	799535
92686679015	**MCD-B-66**	EPA 3005A	799426	EPA 6020B	799535
92686679016	**MCD-B-106D**	EPA 3005A	799426	EPA 6020B	799535
92686679017	**MCD-AP234-FD-4**	EPA 3005A	799426	EPA 6020B	799535
92686679018	**MCD-AP234-EB-5**	EPA 3005A	799426	EPA 6020B	799535

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686679019	**MCD-B-77**	EPA 3005A	799667	EPA 6020B	799762
92686679020	**MCD-B-83**	EPA 3005A	799667	EPA 6020B	799762
92686679021	**MCD-B-88**	EPA 3005A	799667	EPA 6020B	799762
92686679022	**MCD-B-107D**	EPA 3005A	799667	EPA 6020B	799762
92686679023	**MCD-B-120D**	EPA 3005A	799667	EPA 6020B	799762
92686679024	**MCD-B-104D**	EPA 3005A	800427	EPA 6020B	800580
92686679025	**MCD-B-108D**	EPA 3005A	800427	EPA 6020B	800580
92686679026	**MCD-B-111D**	EPA 3005A	800427	EPA 6020B	800580
92686679027	**MCD-B-125D**	EPA 3005A	800427	EPA 6020B	800580
92686679007	**MCD-B-63**	EPA 7470A	803461	EPA 7470A	803573
92686679008	**MCD-B-122D**	EPA 7470A	803461	EPA 7470A	803573
92686679009	**MCD-B-101D**	EPA 7470A	803461	EPA 7470A	803573
92686679010	**MCD-B-56**	EPA 7470A	803461	EPA 7470A	803573
92686679011	**MCD-AP234-FD-5**	EPA 7470A	803461	EPA 7470A	803573
92686679012	**MCD-AP234-FB-5**	EPA 7470A	803461	EPA 7470A	803573
92686679013	**MCD-B-102D**	EPA 7470A	803461	EPA 7470A	803573
92686679014	**MCD-B-82**	EPA 7470A	803461	EPA 7470A	803573
92686679015	**MCD-B-66**	EPA 7470A	803461	EPA 7470A	803573
92686679016	**MCD-B-106D**	EPA 7470A	803461	EPA 7470A	803573
92686679017	**MCD-AP234-FD-4**	EPA 7470A	803461	EPA 7470A	803573
92686679018	**MCD-AP234-EB-5**	EPA 7470A	803461	EPA 7470A	803573
92686679019	**MCD-B-77**	EPA 7470A	803461	EPA 7470A	803573
92686679020	**MCD-B-83**	EPA 7470A	803461	EPA 7470A	803573
92686679021	**MCD-B-88**	EPA 7470A	803461	EPA 7470A	803573
92686679022	**MCD-B-107D**	EPA 7470A	803461	EPA 7470A	803573
92686679023	**MCD-B-120D**	EPA 7470A	803461	EPA 7470A	803573
92686679024	**MCD-B-104D**	EPA 7470A	801878	EPA 7470A	802024
92686679025	**MCD-B-108D**	EPA 7470A	801878	EPA 7470A	802024
92686679026	**MCD-B-111D**	EPA 7470A	801878	EPA 7470A	802024
92686679027	**MCD-B-125D**	EPA 7470A	801878	EPA 7470A	802024
92686679001	**MCD-B-93**	SM 2540C-2015	798883		
92686679002	**MCD-B-92**	SM 2540C-2015	798883		
92686679003	**MCD-B-97**	SM 2540C-2015	798883		
92686679004	**MCD-B-98**	SM 2540C-2015	798883		
92686679005	**MCD-AP234-FB-4**	SM 2540C-2015	798883		
92686679006	**MCD-AP234-EB-4**	SM 2540C-2015	798883		
92686679007	**MCD-B-63**	SM 2540C-2015	799142		
92686679008	**MCD-B-122D**	SM 2540C-2015	799142		
92686679009	**MCD-B-101D**	SM 2540C-2015	799142		
92686679010	**MCD-B-56**	SM 2540C-2015	799142		
92686679011	**MCD-AP234-FD-5**	SM 2540C-2015	799142		
92686679012	**MCD-AP234-FB-5**	SM 2540C-2015	799142		
92686679013	**MCD-B-102D**	SM 2540C-2015	799378		
92686679014	**MCD-B-82**	SM 2540C-2015	799704		
92686679015	**MCD-B-66**	SM 2540C-2015	799704		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686679016	**MCD-B-106D**	SM 2540C-2015	799704		
92686679017	**MCD-AP234-FD-4**	SM 2540C-2015	799704		
92686679018	**MCD-AP234-EB-5**	SM 2540C-2015	799704		
92686679019	**MCD-B-77**	SM 2540C-2015	800282		
92686679020	**MCD-B-83**	SM 2540C-2015	800282		
92686679021	**MCD-B-88**	SM 2540C-2015	800282		
92686679022	**MCD-B-107D**	SM 2540C-2015	800282		
92686679023	**MCD-B-120D**	SM 2540C-2015	800282		
92686679024	**MCD-B-104D**	SM 2540C-2015	800804		
92686679025	**MCD-B-108D**	SM 2540C-2015	800804		
92686679026	**MCD-B-111D**	SM 2540C-2015	800804		
92686679027	**MCD-B-125D**	SM 2540C-2015	800811		
92686679001	**MCD-B-93**	EPA 7470A	800476	EPA 7470A	800627
92686679002	**MCD-B-92**	EPA 7470A	800476	EPA 7470A	800627
92686679003	**MCD-B-97**	EPA 7470A	800476	EPA 7470A	800627
92686679004	**MCD-B-98**	EPA 7470A	800476	EPA 7470A	800627
92686679005	**MCD-AP234-FB-4**	EPA 7470A	800476	EPA 7470A	800627
92686679006	**MCD-AP234-EB-4**	EPA 7470A	800476	EPA 7470A	800627
92686679001	**MCD-B-93**	SM 2320B-2011	798846		
92686679002	**MCD-B-92**	SM 2320B-2011	798846		
92686679003	**MCD-B-97**	SM 2320B-2011	798846		
92686679004	**MCD-B-98**	SM 2320B-2011	798846		
92686679005	**MCD-AP234-FB-4**	SM 2320B-2011	798846		
92686679006	**MCD-AP234-EB-4**	SM 2320B-2011	798846		
92686679007	**MCD-B-63**	SM 2320B-2011	799173		
92686679008	**MCD-B-122D**	SM 2320B-2011	799173		
92686679009	**MCD-B-101D**	SM 2320B-2011	799657		
92686679010	**MCD-B-56**	SM 2320B-2011	799657		
92686679011	**MCD-AP234-FD-5**	SM 2320B-2011	799173		
92686679012	**MCD-AP234-FB-5**	SM 2320B-2011	799173		
92686679013	**MCD-B-102D**	SM 2320B-2011	799684		
92686679014	**MCD-B-82**	SM 2320B-2011	799684		
92686679015	**MCD-B-66**	SM 2320B-2011	799684		
92686679016	**MCD-B-106D**	SM 2320B-2011	799684		
92686679017	**MCD-AP234-FD-4**	SM 2320B-2011	799684		
92686679018	**MCD-AP234-EB-5**	SM 2320B-2011	799684		
92686679019	**MCD-B-77**	SM 2320B-2011	799970		
92686679020	**MCD-B-83**	SM 2320B-2011	799970		
92686679021	**MCD-B-88**	SM 2320B-2011	799970		
92686679022	**MCD-B-107D**	SM 2320B-2011	799970		
92686679023	**MCD-B-120D**	SM 2320B-2011	800267		
92686679024	**MCD-B-104D**	SM 2320B-2011	800448		
92686679025	**MCD-B-108D**	SM 2320B-2011	800448		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686679026	**MCD-B-111D**	SM 2320B-2011	800448		
92686679027	**MCD-B-125D**	SM 2320B-2011	800851		
92686679001	**MCD-B-93**	SM 4500-S2D-2011	798662		
92686679002	**MCD-B-92**	SM 4500-S2D-2011	798662		
92686679003	**MCD-B-97**	SM 4500-S2D-2011	798662		
92686679004	**MCD-B-98**	SM 4500-S2D-2011	798662		
92686679005	**MCD-AP234-FB-4**	SM 4500-S2D-2011	798662		
92686679006	**MCD-AP234-EB-4**	SM 4500-S2D-2011	798662		
92686679007	**MCD-B-63**	SM 4500-S2D-2011	799296		
92686679008	**MCD-B-122D**	SM 4500-S2D-2011	799296		
92686679009	**MCD-B-101D**	SM 4500-S2D-2011	799297		
92686679010	**MCD-B-56**	SM 4500-S2D-2011	799297		
92686679011	**MCD-AP234-FD-5**	SM 4500-S2D-2011	799296		
92686679012	**MCD-AP234-FB-5**	SM 4500-S2D-2011	799296		
92686679013	**MCD-B-102D**	SM 4500-S2D-2011	799849		
92686679014	**MCD-B-82**	SM 4500-S2D-2011	799849		
92686679015	**MCD-B-66**	SM 4500-S2D-2011	799849		
92686679016	**MCD-B-106D**	SM 4500-S2D-2011	799849		
92686679017	**MCD-AP234-FD-4**	SM 4500-S2D-2011	799849		
92686679018	**MCD-AP234-EB-5**	SM 4500-S2D-2011	799849		
92686679019	**MCD-B-77**	SM 4500-S2D-2011	799850		
92686679020	**MCD-B-83**	SM 4500-S2D-2011	799850		
92686679021	**MCD-B-88**	SM 4500-S2D-2011	799850		
92686679022	**MCD-B-107D**	SM 4500-S2D-2011	799850		
92686679023	**MCD-B-120D**	SM 4500-S2D-2011	799850		
92686679024	**MCD-B-104D**	SM 4500-S2D-2011	800665		
92686679025	**MCD-B-108D**	SM 4500-S2D-2011	800665		
92686679026	**MCD-B-111D**	SM 4500-S2D-2011	800665		
92686679027	**MCD-B-125D**	SM 4500-S2D-2011	800665		
92686679001	**MCD-B-93**	EPA 300.0 Rev 2.1 1993	798687		
92686679002	**MCD-B-92**	EPA 300.0 Rev 2.1 1993	798687		
92686679003	**MCD-B-97**	EPA 300.0 Rev 2.1 1993	798687		
92686679004	**MCD-B-98**	EPA 300.0 Rev 2.1 1993	798688		
92686679005	**MCD-AP234-FB-4**	EPA 300.0 Rev 2.1 1993	798688		
92686679006	**MCD-AP234-EB-4**	EPA 300.0 Rev 2.1 1993	798688		
92686679007	**MCD-B-63**	EPA 300.0 Rev 2.1 1993	799070		
92686679008	**MCD-B-122D**	EPA 300.0 Rev 2.1 1993	799070		
92686679009	**MCD-B-101D**	EPA 300.0 Rev 2.1 1993	799070		
92686679010	**MCD-B-56**	EPA 300.0 Rev 2.1 1993	799070		
92686679011	**MCD-AP234-FD-5**	EPA 300.0 Rev 2.1 1993	799070		
92686679012	**MCD-AP234-FB-5**	EPA 300.0 Rev 2.1 1993	799070		
92686679013	**MCD-B-102D**	EPA 300.0 Rev 2.1 1993	799599		
92686679014	**MCD-B-82**	EPA 300.0 Rev 2.1 1993	799599		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92686679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686679015	**MCD-B-66**	EPA 300.0 Rev 2.1 1993	799599		
92686679016	**MCD-B-106D**	EPA 300.0 Rev 2.1 1993	799599		
92686679017	**MCD-AP234-FD-4**	EPA 300.0 Rev 2.1 1993	799599		
92686679018	**MCD-AP234-EB-5**	EPA 300.0 Rev 2.1 1993	799599		
92686679019	**MCD-B-77**	EPA 300.0 Rev 2.1 1993	799599		
92686679020	**MCD-B-83**	EPA 300.0 Rev 2.1 1993	799599		
92686679021	**MCD-B-88**	EPA 300.0 Rev 2.1 1993	799599		
92686679022	**MCD-B-107D**	EPA 300.0 Rev 2.1 1993	799599		
92686679023	**MCD-B-120D**	EPA 300.0 Rev 2.1 1993	799599		
92686679024	**MCD-B-104D**	EPA 300.0 Rev 2.1 1993	800154		
92686679025	**MCD-B-108D**	EPA 300.0 Rev 2.1 1993	800154		
92686679026	**MCD-B-111D**	EPA 300.0 Rev 2.1 1993	800154		
92686679027	**MCD-B-125D**	EPA 300.0 Rev 2.1 1993	800154		

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Pace ANALYTICAL SERVICES

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

Effective Date: 11/14/2022

oratory receiving samples:

sheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mecha** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: Ga-Power

Project #:

WO# : 92686679

92686679

urier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client
☐ Commercial ☐ Pace ☐ Other:

stody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 9-7-23 JC

cking Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

ermometer:
☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

oler Temp: 2.3 **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

oler Temp Corrected (°C) 2.3

DA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

OMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Lot ID of split containers:

ENT NOTIFICATION/RESOLUTION

erson 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#: 92686679

*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 #

PM: BV Due Date: 09/21/23

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)	SPST-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-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1		1																	2				
2		2	1			1		1																	2	X			
3		2	1			1		1																	2	X			
4		2	1			1		1																	2	X			
5		2	1			1		1																	2	X			
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Laurel Coker	Attention: scainvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-234 Assessment	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

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

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product PD; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	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	Analysis Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686679
1	MCD-B-93	WG	G	9/6/23	11:49		7	3		3		1					X	X	X	X	X	X		001
2	MCD-B-92	WG	G	9/6/23	11:38		7	3		3		1					X	X	X	X	X	X		002
3	MCD-B-97	WG	G	9/6/23	13:20		7	3		3		1					X	X	X	X	X	X		003
4	MCD-B-98	WG	G	9/6/23	15:19		7	3		3		1					X	X	X	X	X	X		004
6	MCD-AP234-FB-4	WG	G	9/6/2023	11:30		7	3		3		1					X	X	X	X	X	X		005
7	MCD-AP234-EB-4	WG	G	9/6/2023	12:00		7	3		3		1					X	X	X	X	X	X		006
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-202352	[illegible]	09/07/23	0900	[illegible] 859	9/7/23	
	[illegible]	09/07/23	0900			

DATE Signed:

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

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92686679**

PM: BV Due Date: 09/21/23

CLIENT: 92-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: 9/8/23

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: 4.1 **Correction Factor:** Add/Subtract (°C) 2.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 6.1

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92686679

PM: BV Due Date: 09/21/23

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)	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 1	1 1																	2 2			
2		2	1			1 1	1 1																	2 2			
3		2	1			1 1	1 1																	2 2			
4		2	1			1 1	1 1																	2 1			
5		2	1			1 1	1 1																	2 2			
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7		2	1			1 1	1 1																	2 2			
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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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	lacoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency: —

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92646679
																	N	N	N	N	N	N		
1	MCD-B-83	WG	G	9/7/23	12:08		7	3		3		1					X	X	X	X	X	X		057
2	MCD-B-122D	WG	G	9/7/23	15:11		7	3		3		1					X	X	X	X	X	X		058
3	MCD-B-101D	WG	G	9/8/23	10:35		9	3		5		1					X	X	X	X	X	X		059 EXTRA RADS
4	MCD-B-56	WG	G	9/8/23	10:36		7	3		3		1					X	X	X	X	X	X		060
6	MCD-AP234-FD-5	WG	G	9/7/23	--		7	3		3		1					X	X	X	X	X	X		061
7	MCD-AP234-FB-5	WG	G	9/7/23	12:35		7	3		3		1					X	X	X	X	X	X		062
8																								
9																								
10																								
11																								
12																								
13																								
14																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	09/08/23	1550		9/8 1550	

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 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 #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

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

Date/Initials Person Examining Contents: 4-12-23 HA

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: 4.8 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.8

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

*****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)	DG94-40 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)	BP1N	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																		2				
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3		2	1			1	1																		2				
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6		2	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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31408440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	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/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV + Hg, Na, K, Fe	Cl, F, SO4	Radium 86/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	
																	N	N	N	N	N	N				92686679
1	MCD-B-102D	WG	G	9/11/23	10:46		7	3		3		1					X	X	X	X	X	X				013
2	MCD-B-52	WG	G	9/11/23	11:57		7	3		3		1					X	X	X	X	X	X				014
3	MCD-B-66	WG	G	9/11/23	13:57		7	3		3		1					X	X	X	X	X	X				015
4	MCD-B-108D	WG	G	9/11/23	15:35		7	3		3		1					X	X	X	X	X	X				016
5	MCD-AP234-FD-4	WG	G	9/11/23	--		7	3		3		1					X	X	X	X	X	X				017
7	MCD-AP234-EB-5	WG	G	9/11/23	11:55		7	3		3		1					X	X	X	X	X	X				018
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	09/12/23	830	834	9/12/23				
					9/12/23				

DATE Signed:

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#: 92686679**

PM: BV Due Date: 09/21/23

CLIENT: 92-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: 9-13-23 AO

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 683

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.9 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): 2.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

Qualtrax ID: 60914

**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#: 92686679

PM: BV Due Date: 09/21/23

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)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3N 2	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				
2		2	1			1																		2				
3		2	1			1																		4				
4		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.

Qualtrax ID: 60614

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2460 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax:	Project Name: Plant McD AP-234 Assessment	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	App IMV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686679
																	N	N	N	N	N	N		
1	MCD-B-77	WG	G	9/12/23	11:06		7	3		3		1					X	X	X	X	X	X		019
2	MCD-B-83	WG	G	9/12/23	13:03		7	3		3		1					X	X	X	X	X	X		020
3	MCD-B-88	WG	G	9/12/23	14:10		9	3		5		1					X	X	X	X	X	X		021 Extra Rads
4	MCD-B-107D	WG	G	9/12/23	9:46		7	3		3		1					X	X	X	X	X	X		022
5	MCD-B-120D	WG	G	9/12/23	9:38		7	3		3		1					X	X	X	X	X	X		023
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/13/23	836	[illegible] BAH	9-13-23	
				[illegible]	9-13-23	

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 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mer[illegible] ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92686679

PM: BV Due Date: 09/21/23

CLIENT: 92-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: 9-14-23

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 093

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.9

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No.	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☑ Yes	☐ No ☐ No	☐ N/A ☐ N/A	6.
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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: _____

Qualtrax ID: 69614

***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#: 92686679

PM: BV Due Date: 09/21/23

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)	BPZN	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				
2		2	1			1																		2				
3		2	1			1																		2				
4		2	1			1																		2				
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.

Pace Analytical

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	lacoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92666679
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																N	N	N	N	N	N		
1	MCD-B-104D	WG	G	9/13/23	12:34		7	3		3		1					X	X	X	X	X	X		024
2	MCD-B-108D	WG	G	9/13/23	13:54		7	3		3		1					X	X	X	X	X	X		025
3	MCD-B-111D	WG	G	9/13/23	12:42		7	3		3		1					X	X	X	X	X	X		026
4	MCD-B-125D	WG	G	9/14/23	10:00		7	3		3		1					X	X	X	X	X	X		027
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/14/23	1422		9/14/23	1422

DATE Signed:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

October 04, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 07, 2023 and September 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

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CERTIFICATIONS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686681001	**MCD-B-100**	Water	09/06/23 10:10	09/07/23 09:00
92686681002	**MCD-B-62**	Water	09/07/23 16:36	09/08/23 15:50

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92686681001	**MCD-B-100**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686681002	**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
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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 McD AP-1234 Assessment
Pace Project No.: 92686681

Sample: MCD-B-100 **Lab ID: 92686681001** Collected: 09/06/23 10:10 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**21.7**	mg/L	0.040	0.025	1	09/09/23 08:25	09/11/23 21:54	7439-89-6	
Potassium	**1.3**	mg/L	0.50	0.15	1	09/09/23 08:25	09/11/23 21:54	7440-09-7	
Sodium	**28.1**	mg/L	1.0	0.58	1	09/09/23 08:25	09/11/23 21:54	7440-23-5	
Calcium	**49.9**	mg/L	1.0	0.12	1	09/09/23 08:25	09/11/23 21:54	7440-70-2	
Magnesium	**46.9**	mg/L	0.050	0.012	1	09/09/23 08:25	09/11/23 21:54	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	0.0012	1	09/09/23 08:50	09/13/23 13:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/09/23 08:50	09/13/23 13:54	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/09/23 08:50	09/13/23 13:54	7440-39-3	
Beryllium	**0.00054**	mg/L	0.00050	0.000054	1	09/09/23 08:50	09/13/23 13:54	7440-41-7	
Boron	**0.24**	mg/L	0.040	0.0086	1	09/09/23 08:50	09/13/23 13:54	7440-42-8	
Cadmium	**0.00035J**	mg/L	0.00050	0.00011	1	09/09/23 08:50	09/13/23 13:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/23 08:50	09/13/23 13:54	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00039	1	09/09/23 08:50	09/13/23 13:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/09/23 08:50	09/13/23 13:54	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	09/09/23 08:50	09/13/23 13:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/09/23 08:50	09/13/23 13:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/23 08:50	09/13/23 13:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/09/23 08:50	09/13/23 13:54	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**641**	mg/L	25.0	25.0	1		09/11/23 13:31		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/19/23 17:10	09/20/23 14:10	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/23 16:48		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/23 16:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/09/23 04:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.0**	mg/L	1.0	0.60	1		09/09/23 22:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/23 22:44	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Sample: MCD-B-100 **Lab ID: 92686681001** Collected: 09/06/23 10:10 Received: 09/07/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**322**	mg/L	7.0	3.5	7		09/10/23 06:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Sample: MCD-B-62 **Lab ID: 92686681002** Collected: 09/07/23 16:36 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**5.0**	mg/L	0.040	0.025	1	09/11/23 11:12	09/13/23 12:36	7439-89-6	
Potassium	**2.4**	mg/L	0.50	0.15	1	09/11/23 11:12	09/13/23 12:36	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	09/11/23 11:12	09/13/23 12:36	7440-23-5	
Calcium	**35.1**	mg/L	1.0	0.12	1	09/11/23 11:12	09/13/23 12:36	7440-70-2	
Magnesium	**5.1**	mg/L	0.050	0.012	1	09/11/23 11:12	09/13/23 12:36	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	0.0012	1	09/11/23 14:11	09/14/23 18:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/11/23 14:11	09/14/23 18:19	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/11/23 14:11	09/14/23 18:19	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	09/11/23 14:11	09/14/23 18:19	7440-41-7	
Boron	**0.071**	mg/L	0.040	0.0086	1	09/11/23 14:11	09/14/23 18:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/23 14:11	09/14/23 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/23 14:11	09/14/23 18:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/23 14:11	09/14/23 18:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/11/23 14:11	09/14/23 18:19	7439-92-1	
Lithium	**0.0092J**	mg/L	0.030	0.00073	1	09/11/23 14:11	09/14/23 18:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/23 14:11	09/15/23 19:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/23 14:11	09/14/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/11/23 14:11	09/14/23 18:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 12:15	10/02/23 16:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**181**	mg/L	25.0	25.0	1		09/12/23 11:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**75.7**	mg/L	5.0	5.0	1		09/12/23 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/12/23 17:28		
Alkalinity, Total as CaCO3	**75.7**	mg/L	5.0	5.0	1		09/12/23 17:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		09/12/23 18:06	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		09/12/23 18:06	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Sample: MCD-B-62 **Lab ID: 92686681002** Collected: 09/07/23 16:36 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**49.3**	mg/L	1.0	0.50	1		09/12/23 18:06	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798622
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686681001

METHOD BLANK: 4136598 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/11/23 20:25	
Iron	mg/L	ND	0.040	0.025	09/11/23 20:25	
Magnesium	mg/L	ND	0.050	0.012	09/11/23 20:25	
Potassium	mg/L	ND	0.50	0.15	09/11/23 20:25	
Sodium	mg/L	ND	1.0	0.58	09/11/23 20:25	

LABORATORY CONTROL SAMPLE: 4136599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136986 4136987

Parameter	Units	92686676002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.0	1	1	8.2	7.6	115	58	75-125	7	20	M1
Iron	mg/L	0.091	1	1	1.2	1.1	108	106	75-125	2	20	
Magnesium	mg/L	0.98	1	1	2.1	2.0	108	101	75-125	4	20	
Potassium	mg/L	0.77	1	1	1.8	1.8	104	101	75-125	1	20	
Sodium	mg/L	8.8	1	1	9.9	9.2	117	42	75-125	8	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-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798869
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686681002

METHOD BLANK: 4137528 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/23 10:22	
Iron	mg/L	ND	0.040	0.025	09/13/23 10:22	
Magnesium	mg/L	ND	0.050	0.012	09/13/23 10:22	
Potassium	mg/L	ND	0.50	0.15	09/13/23 10:22	
Sodium	mg/L	ND	1.0	0.58	09/13/23 10:22	

LABORATORY CONTROL SAMPLE: 4137529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137530 4137531

Parameter	Units	92686941001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	71.8	1	1	68.4	71.2	-338	-59	75-125	4	20	M1
Iron	mg/L	2.1	1	1	3.0	3.0	86	93	75-125	2	20	
Magnesium	mg/L	24.6	1	1	24.1	25.0	-53	33	75-125	4	20	M1
Potassium	mg/L	8.2	1	1	8.7	9.1	42	82	75-125	5	20	M1
Sodium	mg/L	20.0	1	1	19.8	20.6	-19	59	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798623
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686681001

METHOD BLANK: 4136603 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/13/23 12:38	
Arsenic	mg/L	ND	0.0050	0.0037	09/13/23 12:38	
Barium	mg/L	ND	0.0050	0.00067	09/14/23 16:38	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/23 12:38	
Boron	mg/L	ND	0.040	0.0086	09/13/23 12:38	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/23 12:38	
Chromium	mg/L	ND	0.0050	0.0011	09/13/23 12:38	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/23 12:38	
Lead	mg/L	ND	0.0010	0.00012	09/13/23 12:38	
Lithium	mg/L	ND	0.030	0.00073	09/13/23 12:38	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/23 12:38	
Selenium	mg/L	ND	0.0050	0.0014	09/13/23 12:38	
Thallium	mg/L	ND	0.0010	0.00018	09/13/23 12:38	

LABORATORY CONTROL SAMPLE: 4136604

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	0.097	97	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	0.10	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	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136605 4136606

Parameter	Units	92686676001 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	0.10	0.10	104	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136605 4136606

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.041	0.1	0.1	0.15	0.15	105	107	75-125	2	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Boron	mg/L	0.012J	1	1	1.0	1.0	102	102	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.098	97	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.096	97	96	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	2	20	
Thallium	mg/L	0.00053J	0.1	0.1	0.095	0.095	94	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798903
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686681002

METHOD BLANK: 4137724 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/14/23 16:50	
Arsenic	mg/L	ND	0.0050	0.0037	09/14/23 16:50	
Barium	mg/L	ND	0.0050	0.00067	09/14/23 16:50	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/23 16:50	
Boron	mg/L	ND	0.040	0.0086	09/14/23 16:50	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/23 16:50	
Chromium	mg/L	ND	0.0050	0.0011	09/14/23 16:50	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/23 16:50	
Lead	mg/L	ND	0.0010	0.00012	09/14/23 16:50	
Lithium	mg/L	ND	0.030	0.00073	09/14/23 16:50	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/23 16:50	
Selenium	mg/L	ND	0.0050	0.0014	09/14/23 16:50	
Thallium	mg/L	ND	0.0010	0.00018	09/14/23 16:50	

LABORATORY CONTROL SAMPLE: 4137725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137726 4137727

Parameter	Units	92686941002 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	0.11	0.10	110	104	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.099	106	99	75-125	7	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137726 4137727

Parameter	Units	92686941002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.0027J	0.1	0.1	0.11	0.10	105	100	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	4	20	
Boron	mg/L	0.24	1	1	1.3	1.2	103	99	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	107	100	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.094	102	93	75-125	8	20	
Cobalt	mg/L	0.00040J	0.1	0.1	0.10	0.094	101	94	75-125	8	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.091	95	91	75-125	4	20	
Lithium	mg/L	0.0043J	0.1	0.1	0.10	0.099	100	94	75-125	6	20	
Molybdenum	mg/L	0.026	0.1	0.1	0.13	0.12	105	97	75-125	6	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.098	104	98	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.089	92	89	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 803461
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686681002

METHOD BLANK: 4161104 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/02/23 16:27	

LABORATORY CONTROL SAMPLE: 4161105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4161106 4161107

Parameter	Units	92686676003 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	0.0027	0.0026	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798883
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686681001

METHOD BLANK: 4137624 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/23 13:25	

LABORATORY CONTROL SAMPLE: 4137625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	80-120	

SAMPLE DUPLICATE: 4137626

Parameter	Units	92686830001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1540	1500	3	10	

SAMPLE DUPLICATE: 4137627

Parameter	Units	92686679004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	174	17	10	D6

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 799142
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686681002

METHOD BLANK: 4138899 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/23 11:42	

LABORATORY CONTROL SAMPLE: 4138900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 4138901

Parameter	Units	92686677006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	253	259	2	10	

SAMPLE DUPLICATE: 4138902

Parameter	Units	92687108002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	101	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 800476
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681001

METHOD BLANK: 4146097 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	09/20/23 13:34	

LABORATORY CONTROL SAMPLE: 4146098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0020	81	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4146099 4146100

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798846
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681001

METHOD BLANK: 4137453 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/23 15:34	

LABORATORY CONTROL SAMPLE: 4137454

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: 4137455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137456 4137457

Parameter	Units	92686679001 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	9.5	50	50	60.9	61.8	103	105	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137458 4137459

Parameter	Units	92686836005 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	15.3	50	50	67.7	68.0	105	105	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 799173
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681002

METHOD BLANK: 4139096 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/12/23 15:04	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/12/23 15:04	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/12/23 15:04	

LABORATORY CONTROL SAMPLE: 4139097

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: 4139098

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: 4139099 4139100

Parameter	Units	92686679012 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	51.2	51.0	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4139101 4139102

Parameter	Units	92686677009 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	96.9	50	50	148	148	103	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798662
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681001

METHOD BLANK: 4136899 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/09/23 04:31	

LABORATORY CONTROL SAMPLE: 4136900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136901 4136902

Parameter	Units	92686676001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.56	106	111	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136903 4136904

Parameter	Units	92686861001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.38	0.37	76	75	80-120	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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 799296
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681002

METHOD BLANK: 4140098 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/13/23 02:23	

LABORATORY CONTROL SAMPLE: 4140099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140102 4140103

Parameter	Units	92686679007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.44	0.43	87	85	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140133 4140134

Parameter	Units	92686941002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.49	104	97	80-120	7	10	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 798688
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681001

METHOD BLANK: 4136959 Matrix: Water
Associated Lab Samples: 92686681001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/23 21:04	
Fluoride	mg/L	ND	0.10	0.050	09/09/23 21:04	
Sulfate	mg/L	ND	1.0	0.50	09/09/23 21:04	

LABORATORY CONTROL SAMPLE: 4136960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4136961 4136962

Parameter	Units	92686679004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.8	57.1	107	108	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	102	104	90-110	1	10	
Sulfate	mg/L	53.9	50	50	100	99.4	92	91	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

QC Batch: 799070
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686681002

METHOD BLANK: 4138708 Matrix: Water
Associated Lab Samples: 92686681002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/12/23 12:51	
Fluoride	mg/L	ND	0.10	0.050	09/12/23 12:51	
Sulfate	mg/L	ND	1.0	0.50	09/12/23 12:51	

LABORATORY CONTROL SAMPLE: 4138709

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	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138710 4138711

Parameter	Units	92687087001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	59.4	59.8	103	104	90-110	1	10	
Fluoride	mg/L	0.63	2.5	2.5	3.5	3.5	113	115	90-110	1	10	M1
Sulfate	mg/L	9.9	50	50	60.7	61.4	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138712 4138713

Parameter	Units	92686677010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.1	53.1	104	106	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	0	10	
Sulfate	mg/L	ND	50	50	52.7	54.0	105	108	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

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.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92686681

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686681001	**MCD-B-100**	EPA 3010A	798622	EPA 6010D	798709
92686681002	**MCD-B-62**	EPA 3010A	798869	EPA 6010D	798954
92686681001	**MCD-B-100**	EPA 3005A	798623	EPA 6020B	798699
92686681002	**MCD-B-62**	EPA 3005A	798903	EPA 6020B	798992
92686681002	**MCD-B-62**	EPA 7470A	803461	EPA 7470A	803573
92686681001	**MCD-B-100**	SM 2540C-2015	798883		
92686681002	**MCD-B-62**	SM 2540C-2015	799142		
92686681001	**MCD-B-100**	EPA 7470A	800476	EPA 7470A	800627
92686681001	**MCD-B-100**	SM 2320B-2011	798846		
92686681002	**MCD-B-62**	SM 2320B-2011	799173		
92686681001	**MCD-B-100**	SM 4500-S2D-2011	798662		
92686681002	**MCD-B-62**	SM 4500-S2D-2011	799296		
92686681001	**MCD-B-100**	EPA 300.0 Rev 2.1 1993	798688		
92686681002	**MCD-B-62**	EPA 300.0 Rev 2.1 1993	799070		

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Pace ANALYTICAL SERVICES

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

Effective Date: 11/14/2022

oratory receiving samples:

sheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: Ga - Power

Project #: **WO# : 92686681**

92686681

urier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client
] Commercial ☐ Pace ☐ Other:____

istody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 9-7-23 JIC

icking Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

ermometer:
☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

ooler Temp: 2.3 **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

ooler Temp Corrected (°C): 2.3

SDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

OMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

IENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES

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

Effective Date: 11/14/2022

WO#: 92686681

***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 #

PM: BV **Due Date: 09/21/23**

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)	BP3S-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)	SPZT-250 mL Sterile Plastic (N/A – lab)	15 mL	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																	2				
2																													
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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.

Pace Analytical

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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	lcucker@southernco.com	Purchase Order #:		Pace Quote:	
Phone: (470) 820-6176	Fax:	Project Name:	Plant McD AP-1234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31408440.MCD23	Pace Profile #:	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test: Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 95139220	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
		MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product PD, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS														N	N	N	N	N	N		
1	MCD-B-100	WG	G	9/6/23	10:10		7	3		3		1				X	X	X	X	X	X		92608661 001
2																							
3																							
4																							
5																							
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9																							
10																							
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14																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Pace Quote: MCD-CCR-Assmt-23456	Alexandria Hall WSP	9/07/23	0900		9/7/23	

DATE Signed:

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

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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO#: 92686681

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

PM: BV Due Date: 09/21/23

CLIENT: 92-GA Power

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/8/23 TDR

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

Pace ANALYTICAL SERVICES

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# : 92686681

PM: BV Due Date: 09/21/23

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)	BP1U	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.

Pace Analytical

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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-1234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 951/349/320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92666661
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	MCD-B-62	WG	G	9/7/23	16:36		7	3		3		1					X	X	X	X	X	X		002
2																								
3																								
4																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	09/08/23	1550	JCL	9/8 1550	

DATE Signed:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 13, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 07, 2023 and September 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

Revision 1: Sample ID for 92686682-001 corrected to match COC

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

Sincerely,

Kayla Slaughter for
Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686682001	**MCD-B-100**	Water	09/06/23 10:10	09/07/23 00:00
92686682002	**MCD-B-62**	Water	09/07/23 16:36	09/08/23 15:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92686682001	**MCD-B-100**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686682002	**MCD-B-62**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Sample: MCD-B-100 **Lab ID: 92686682001** Collected: 09/06/23 10:10 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.204U ± 0.130 (0.215) C:90% T:NA**	pCi/L	10/03/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.122U ± 0.416 (0.936) C:78% T:79%**	pCi/L	09/26/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.326U ± 0.546 (1.15)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Sample: MCD-B-62 **Lab ID: 92686682002** Collected: 09/07/23 16:36 Received: 09/08/23 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	**0.756 ± 0.230 (0.167) C:80% T:NA**	pCi/L	10/03/23 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.48 ± 0.533 (0.786) C:81% T:84%**	pCi/L	09/26/23 15:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.24 ± 0.763 (0.953)**	pCi/L	10/03/23 15:18	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

QC Batch: 615444
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686682001, 92686682002

METHOD BLANK: 2997136
Matrix: Water
Associated Lab Samples: 92686682001, 92686682002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.131 ± 0.132 (0.266) C:78% T:NA	pCi/L	10/02/23 13:17	

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-1234 Assessme-RAD
Pace Project No.: 92686682

QC Batch: 615445
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686682001, 92686682002

METHOD BLANK: 2997141
Matrix: Water
Associated Lab Samples: 92686682001, 92686682002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.465 ± 0.323 (0.609) C:77% T:85%	pCi/L	09/26/23 12:28	

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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Huntersville, NC 28078
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QUALIFIERS

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92686682

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686682001	**MCD-B-100**	EPA 9315	615444		
92686682002	**MCD-B-62**	EPA 9315	615444		
92686682001	**MCD-B-100**	EPA 9320	615445		
92686682002	**MCD-B-62**	EPA 9320	615445		
92686682001	**MCD-B-100**	Total Radium Calculation	619773		
92686682002	**MCD-B-62**	Total Radium Calculation	619773		

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Pace ANALYTICAL SERVICES

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

Effective Date: 11/14/2022

oratory receiving samples:

sheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: Gw - Power

Project #: **WO# : 92686682**

92686682

urier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client
☐ Commercial ☐ Pace ☐ Other:____

istody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 9-7-23 JLC

icking Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

ermometer:
☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

oler Temp: 2.3 **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

oler Temp Corrected (°C): 2.3

SDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

OMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Lot ID of split containers:

IENT 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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92686682**

PM: BV Due Date: 09/28/23

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)	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)	1SPUV	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																	2				
2		2	1			1		1																	2				
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.

Dualtrax ID: 69614

Pace 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:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scalinvoices@southernco.com
Address:	2480 Maner Road Atlanta, GA 30339	Copy To:	WSP	Company Name:	
Email:	lacoker@southernco.com	Purchase Order #:		Address:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-1234 Assessment	Pace Quote:	
Requested Due Date:	10 Day TAT	Project #:	31406440.MC023	Pace Project Manager:	Bonnie Verg
				Pace Profile #:	

Page : 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique MATRIX CODE: Drinking Water (DW), Water (WT), Waste Water (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Other (OT), Tissue (TS)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved, Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
1	MCD-B-100	WG	G	9/6/23	10:10		7	3		3		1					N		92686682 001
2																	N		
3																	N		
4																	N		
5																	N		
6																	N		
7																	N		
8																	N		
9																	N		
10																	N		
11																	N		
12																	N		
13																	N		
14																	N		

Analysis Test: Ag, Al, B, Ba, Be, Cd, Co, Cr, Cu, Fe, Pb, Li, Mn, Mo, Ni, Sb, Se, Sn, Sr, Tl, V, Zn, Hg, Ca, Mg, Na, K, Fe
Requested Analysis Filtered (Y/N): Cl, F, SO4; Radium 95136300; TDS; Alkalinity; Sulfide

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Rush Due - Mid-Oct Report Needed	Lauren Coker WSP	9/07/23	0900	[signature]	9/7/23	

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 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#: 92686682**

PM: BV Due Date: 09/28/23

CLIENT: 92-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: 9/8/23 TBR

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

Qualtrax ID: 69614

*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# : 92686682**

PM: BV Due Date: 09/28/23

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)	SPST-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-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																		2				
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.

PaceAnalytical

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 Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone: (470) 620-6176	Fax:	Project Name:	Plant McD AP-1234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Page : 1 Of 1

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

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	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)	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92486688
1	MCD-B-62	WG	G	9/7/23	16:36		7	3		3		1					X	X	X	X	X	X		WR
2																								
3																								
4																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
ask Code = MCD-CCR-ASSMT-2023S2	MARK MANN [signature] WSP	09/08/23	1550	[signature]	9/8 1550	

DATE Signed:

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/19/2023
Worklist:	75311
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2997141
MB concentration:	0.465
M/B 2 Sigma CSU:	0.323
MB MDC:	0.609
MB Numerical Performance Indicator:	2.83
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75311	LCSD75311
Count Date:	9/26/2023	9/26/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.668	39.668
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.817
Target Conc. (pCi/L, g, F):	4.854	4.857
Uncertainty (Calculated):	0.238	0.238
Result (pCi/L, g, F):	4.557	3.686
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.042	0.891
Numerical Performance Indicator:	-0.54	-2.49
Percent Recovery:	93.89%	75.90%
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.:	LCS75311	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75311	
Sample Result (pCi/L, g, F):	4.557	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.042	
Sample Duplicate Result (pCi/L, g, F):	3.686	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.891	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.245	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.19%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
9/27/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/20/2023
Worklist:	75310
Matrix:	WI

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2997136
MB concentration:	0.131
M/B 2 Sigma CSU:	0.132
MB MDC:	0.266
MB Numerical Performance Indicator:	1.94
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75310	LCSD75310
Count Date:	10/3/2023	10/3/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.504
Target Conc. (pCi/L, g, F):	4.951	4.969
Uncertainty (Calculated):	0.233	0.234
Result (pCi/L, g, F):	4.534	5.823
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.814	1.006
Numerical Performance Indicator:	-0.96	1.62
Percent Recovery:	91.59%	117.17%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS75310	92686680007
Duplicate Sample I.D.	LCSD75310	92686680007DUP
Sample Result (pCi/L, g, F):	4.534	0.233
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.814	0.134
Sample Duplicate Result (pCi/L, g, F):	5.823	0.176
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.006	0.137
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.951	0.580
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	24.51%	27.72%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

ET 10-3-23

VAM 10/3/23

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 17, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 07, 2023 and September 14, 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

Revision 1: Amend collected time on MCD-B-102D.

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686684001	**MCD-B-93**	Water	09/06/23 11:49	09/07/23 00:00
92686684002	**MCD-B-92**	Water	09/06/23 11:38	09/07/23 00:00
92686684003	**MCD-B-97**	Water	09/06/23 13:20	09/07/23 00:00
92686684004	**MCD-B-98**	Water	09/06/23 15:19	09/07/23 00:00
92686684005	**MCD-AP234-FB-4**	Water	09/06/23 11:30	09/07/23 00:00
92686684006	**MCD-AP234-EB-4**	Water	09/06/23 12:00	09/07/23 00:00
92686684007	**MCD-B-63**	Water	09/07/23 12:06	09/08/23 15:50
92686684008	**MCD-B-122D**	Water	09/07/23 15:11	09/08/23 15:50
92686684009	**MCD-B-101D**	Water	09/08/23 10:35	09/08/23 15:50
92686684010	**MCD-B-56**	Water	09/08/23 10:38	09/08/23 15:50
92686684011	**MCD-AP234-FD-5**	Water	09/07/23 00:00	09/08/23 15:50
92686684012	**MCD-AP234-FB-5**	Water	09/07/23 12:35	09/08/23 15:50
92686684013	**MCD-B-102D**	Water	09/11/23 10:46	09/12/23 08:30
92686684014	**MCD-B-82**	Water	09/11/23 11:57	09/12/23 08:30
92686684015	**MCD-B-66**	Water	09/11/23 13:57	09/12/23 08:30
92686684016	**MCD-B-106D**	Water	09/11/23 15:38	09/12/23 08:30
92686684017	**MCD-AP234-FD-4**	Water	09/11/23 00:00	09/12/23 08:30
92686684018	**MCD-AP234-EB-5**	Water	09/11/23 11:56	09/12/23 08:30
92686684019	**MCD-B-77**	Water	09/12/23 11:06	09/13/23 08:36
92686684020	**MCD-B-83**	Water	09/12/23 13:03	09/13/23 08:36
92686684021	**MCD-B-88**	Water	09/12/23 14:10	09/13/23 08:36
92686684022	**MCD-B-107D**	Water	09/12/23 09:46	09/13/23 08:36
92686684023	**MCD-B-120D**	Water	09/12/23 09:38	09/13/23 08:36
92686684024	**MCD-B-104D**	Water	09/13/23 12:34	09/14/23 14:22
92686684025	**MCD-B-108D**	Water	09/13/23 13:54	09/14/23 14:22
92686684026	**MCD-B-111D**	Water	09/13/23 12:42	09/14/23 14:22
92686684027	**MCD-B-125D**	Water	09/14/23 10:00	09/14/23 14:22

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92686684001	**MCD-B-93**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684002	**MCD-B-92**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684003	**MCD-B-97**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684004	**MCD-B-98**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684005	**MCD-AP234-FB-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684006	**MCD-AP234-EB-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684007	**MCD-B-63**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684008	**MCD-B-122D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684009	**MCD-B-101D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684010	**MCD-B-56**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684011	**MCD-AP234-FD-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684012	**MCD-AP234-FB-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684013	**MCD-B-102D**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684014	**MCD-B-82**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684015	**MCD-B-66**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684016	**MCD-B-106D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684017	**MCD-AP234-FD-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684018	**MCD-AP234-EB-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684019	**MCD-B-77**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684020	**MCD-B-83**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684021	**MCD-B-88**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684022	**MCD-B-107D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686684023	**MCD-B-120D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686684024	**MCD-B-104D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686684025	**MCD-B-108D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	ERT	1	PASI-PA
92686684026	**MCD-B-111D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686684027	**MCD-B-125D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-93 **Lab ID: 92686684001** Collected: 09/06/23 11:49 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.352 ± 0.157 (0.191) C:89% T:NA**	pCi/L	10/03/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.695 ± 0.378 (0.662) C:83% T:80%**	pCi/L	09/26/23 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05 ± 0.535 (0.853)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-92 **Lab ID: 92686684002** Collected: 09/06/23 11:38 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.440 ± 0.184 (0.228) C:85% T:NA**	pCi/L	10/03/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.967 ± 0.416 (0.654) C:81% T:84%**	pCi/L	09/26/23 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.600 (0.882)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-97 **Lab ID: 92686684003** Collected: 09/06/23 13:20 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.451 ± 0.187 (0.232) C:85% T:NA**	pCi/L	10/03/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.611U ± 0.434 (0.849) C:79% T:85%**	pCi/L	09/26/23 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.06U ± 0.621 (1.08)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-98 **Lab ID: 92686684004** Collected: 09/06/23 15:19 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.509 ± 0.190 (0.202) C:86% T:NA**	pCi/L	10/03/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.713U ± 0.504 (0.978) C:69% T:81%**	pCi/L	09/26/23 11:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.22 ± 0.694 (1.18)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-AP234-FB-4 **Lab ID: 92686684005** Collected: 09/06/23 11:30 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.136U ± 0.113 (0.207) C:89% T:NA**	pCi/L	10/03/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.326U ± 0.336 (0.689) C:73% T:91%**	pCi/L	09/26/23 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.462U ± 0.449 (0.896)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-AP234-EB-4 **Lab ID: 92686684006** Collected: 09/06/23 12:00 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0680U ± 0.104 (0.230) C:86% T:NA**	pCi/L	10/03/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.369U ± 0.381 (0.785) C:70% T:87%**	pCi/L	09/26/23 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.437U ± 0.485 (1.02)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-63 **Lab ID: 92686684007** Collected: 09/07/23 12:06 Received: 09/08/23 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	**0.731 ± 0.238 (0.214) C:79% T:NA**	pCi/L	10/03/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.257U ± 0.542 (1.20) C:74% T:72%**	pCi/L	09/26/23 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.988U ± 0.780 (1.41)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-122D **Lab ID: 92686684008** Collected: 09/07/23 15:11 Received: 09/08/23 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	**5.99 ± 1.08 (0.285) C:64% T:NA**	pCi/L	10/03/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**8.93 ± 1.84 (0.767) C:74% T:79%**	pCi/L	09/26/23 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**14.9 ± 2.92 (1.05)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-101D **Lab ID: 92686684009** Collected: 09/08/23 10:35 Received: 09/08/23 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	**0.543 ± 0.214 (0.263) C:78% T:NA**	pCi/L	10/03/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.03 ± 0.492 (0.831) C:80% T:75%**	pCi/L	09/26/23 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.57 ± 0.706 (1.09)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-56 **Lab ID: 92686684010** Collected: 09/08/23 10:38 Received: 09/08/23 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	**0.370 ± 0.171 (0.233) C:80% T:NA**	pCi/L	10/03/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.489U ± 0.386 (0.759) C:79% T:82%**	pCi/L	09/26/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.859U ± 0.557 (0.992)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-AP234-FD-5 **Lab ID: 92686684011** Collected: 09/07/23 00:00 Received: 09/08/23 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	**5.07 ± 0.932 (0.275) C:63% T:NA**	pCi/L	10/03/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**8.17 ± 1.68 (0.701) C:77% T:84%**	pCi/L	09/26/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**13.2 ± 2.61 (0.976)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-AP234-FB-5 **Lab ID: 92686684012** Collected: 09/07/23 12:35 Received: 09/08/23 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	**0.0883U ± 0.102 (0.210) C:88% T:NA**	pCi/L	10/03/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.124U ± 0.269 (0.669) C:77% T:90%**	pCi/L	09/26/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0883U ± 0.371 (0.879)**	pCi/L	10/03/23 15:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-102D **Lab ID: 92686684013** Collected: 09/11/23 10:46 Received: 09/12/23 08:30 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	**0.214U ± 0.145 (0.238) C:85% T:NA**	pCi/L	10/04/23 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.04 ± 0.455 (0.708) C:76% T:80%**	pCi/L	09/27/23 11:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.25 ± 0.600 (0.946)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-82 **Lab ID: 92686684014** Collected: 09/11/23 11:57 Received: 09/12/23 08:30 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	**0.0896U ± 0.121 (0.259) C:79% T:NA**	pCi/L	10/04/23 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.122U ± 0.291 (0.651) C:77% T:83%**	pCi/L	09/27/23 11:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.212U ± 0.412 (0.910)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-66 **Lab ID: 92686684015** Collected: 09/11/23 13:57 Received: 09/12/23 08:30 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	**0.226 ± 0.144 (0.213) C:76% T:NA**	pCi/L	10/04/23 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.510U ± 0.373 (0.720) C:77% T:79%**	pCi/L	09/27/23 11:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.736U ± 0.517 (0.933)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-106D **Lab ID: 92686684016** Collected: 09/11/23 15:38 Received: 09/12/23 08:30 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	**0.242U ± 0.163 (0.279) C:82% T:NA**	pCi/L	10/04/23 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.368U ± 0.349 (0.706) C:77% T:76%**	pCi/L	09/27/23 11:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.610U ± 0.512 (0.985)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-AP234-FD-4 **Lab ID: 92686684017** Collected: 09/11/23 00:00 Received: 09/12/23 08:30 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	**0.182U ± 0.134 (0.229) C:91% T:NA**	pCi/L	10/04/23 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.316U ± 0.360 (0.753) C:80% T:76%**	pCi/L	09/27/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.498U ± 0.494 (0.982)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-AP234-EB-5 **Lab ID: 92686684018** Collected: 09/11/23 11:56 Received: 09/12/23 08:30 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	**0.191U ± 0.165 (0.321) C:81% T:NA**	pCi/L	10/04/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.176U ± 0.317 (0.693) C:79% T:82%**	pCi/L	09/27/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.367U ± 0.482 (1.01)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-77 **Lab ID: 92686684019** Collected: 09/12/23 11:06 Received: 09/13/23 08:36 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	**0.403 ± 0.177 (0.209) C:89% T:NA**	pCi/L	10/04/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.759 ± 0.374 (0.626) C:76% T:87%**	pCi/L	09/27/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.16 ± 0.551 (0.835)**	pCi/L	10/05/23 11:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-83 **Lab ID: 92686684020** Collected: 09/12/23 13:03 Received: 09/13/23 08:36 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	**0.0781U ± 0.137 (0.311) C:70% T:NA**	pCi/L	10/04/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.108U ± 0.277 (0.684) C:78% T:79%**	pCi/L	09/27/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0781U ± 0.414 (0.995)**	pCi/L	10/05/23 11:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-88 **Lab ID: 92686684021** Collected: 09/12/23 14:10 Received: 09/13/23 08:36 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	**0.526 ± 0.212 (0.249) C:87% T:NA**	pCi/L	10/04/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.629U ± 0.398 (0.737) C:78% T:74%**	pCi/L	09/27/23 11:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.16 ± 0.610 (0.986)**	pCi/L	10/05/23 11:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-107D **Lab ID: 92686684022** Collected: 09/12/23 09:46 Received: 09/13/23 08:36 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	**0.342 ± 0.166 (0.220) C:88% T:NA**	pCi/L	10/04/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.565U ± 0.427 (0.832) C:74% T:76%**	pCi/L	09/27/23 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.907U ± 0.593 (1.05)**	pCi/L	10/05/23 11:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-120D **Lab ID: 92686684023** Collected: 09/12/23 09:38 Received: 09/13/23 08:36 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	**0.785 ± 0.259 (0.251) C:79% T:NA**	pCi/L	10/05/23 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.951 ± 0.481 (0.824) C:75% T:76%**	pCi/L	09/27/23 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.74 ± 0.740 (1.08)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-104D **Lab ID: 92686684024** Collected: 09/13/23 12:34 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.83 ± 0.563 (0.173) C:86% T:NA**	pCi/L	10/05/23 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**11.1 ± 2.22 (0.868) C:78% T:77%**	pCi/L	09/27/23 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**13.9 ± 2.78 (1.04)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-108D **Lab ID: 92686684025** Collected: 09/13/23 13:54 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.579 ± 0.223 (0.275) C:82% T:NA**	pCi/L	10/05/23 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.536U ± 0.379 (0.726) C:77% T:84%**	pCi/L	09/27/23 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.602 (1.00)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-111D **Lab ID: 92686684026** Collected: 09/13/23 12:42 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.40 ± 0.664 (0.214) C:80% T:NA**	pCi/L	10/05/23 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**5.20 ± 1.17 (0.701) C:77% T:79%**	pCi/L	09/27/23 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**8.60 ± 1.83 (0.915)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Sample: MCD-B-125D **Lab ID: 92686684027** Collected: 09/14/23 10:00 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.21 ± 0.332 (0.281) C:80% T:NA**	pCi/L	10/05/23 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.20 ± 0.469 (0.705) C:74% T:89%**	pCi/L	09/27/23 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.41 ± 0.801 (0.986)**	pCi/L	10/06/23 14:33	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

QC Batch: 615447
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686684001, 92686684002, 92686684003, 92686684004, 92686684005, 92686684006, 92686684007, 92686684008, 92686684009, 92686684010, 92686684011, 92686684012

METHOD BLANK: 2997146
Matrix: Water
Associated Lab Samples: 92686684001, 92686684002, 92686684003, 92686684004, 92686684005, 92686684006, 92686684007, 92686684008, 92686684009, 92686684010, 92686684011, 92686684012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.171 ± 0.140 (0.267) C:87% T:NA	pCi/L	10/03/23 08:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

QC Batch: 616172
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686684013, 92686684014, 92686684015, 92686684016, 92686684017, 92686684018, 92686684019, 92686684020, 92686684021, 92686684022

METHOD BLANK: 3000655
Matrix: Water
Associated Lab Samples: 92686684013, 92686684014, 92686684015, 92686684016, 92686684017, 92686684018, 92686684019, 92686684020, 92686684021, 92686684022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0455 ± 0.105 (0.248) C:93% T:NA	pCi/L	10/04/23 08:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

QC Batch: 616402
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686684013, 92686684014, 92686684015, 92686684016, 92686684017, 92686684018, 92686684019, 92686684020, 92686684021, 92686684022, 92686684023, 92686684024, 92686684025, 92686684026, 92686684027

METHOD BLANK: 3001841
Matrix: Water
Associated Lab Samples: 92686684013, 92686684014, 92686684015, 92686684016, 92686684017, 92686684018, 92686684019, 92686684020, 92686684021, 92686684022, 92686684023, 92686684024, 92686684025, 92686684026, 92686684027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.00537 ± 0.288 (0.675) C:78% T:81%	pCi/L	09/27/23 11:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

QC Batch: 615448 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686684001, 92686684002, 92686684003, 92686684004, 92686684005, 92686684006, 92686684007, 92686684008, 92686684009, 92686684010, 92686684011, 92686684012

METHOD BLANK: 2997151 Matrix: Water
Associated Lab Samples: 92686684001, 92686684002, 92686684003, 92686684004, 92686684005, 92686684006, 92686684007, 92686684008, 92686684009, 92686684010, 92686684011, 92686684012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.338 ± 0.316 (0.637) C:80% T:88%	pCi/L	09/26/23 11:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

QC Batch:	616760	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92686684023, 92686684024, 92686684025, 92686684026, 92686684027

METHOD BLANK: 3003588 Matrix: Water

Associated Lab Samples: 92686684023, 92686684024, 92686684025, 92686684026, 92686684027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0109 ± 0.102 (0.265) C:89% T:NA	pCi/L	10/04/23 18:28	

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QUALIFIERS

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686684001	**MCD-B-93**	EPA 9315	615447		
92686684002	**MCD-B-92**	EPA 9315	615447		
92686684003	**MCD-B-97**	EPA 9315	615447		
92686684004	**MCD-B-98**	EPA 9315	615447		
92686684005	**MCD-AP234-FB-4**	EPA 9315	615447		
92686684006	**MCD-AP234-EB-4**	EPA 9315	615447		
92686684007	**MCD-B-63**	EPA 9315	615447		
92686684008	**MCD-B-122D**	EPA 9315	615447		
92686684009	**MCD-B-101D**	EPA 9315	615447		
92686684010	**MCD-B-56**	EPA 9315	615447		
92686684011	**MCD-AP234-FD-5**	EPA 9315	615447		
92686684012	**MCD-AP234-FB-5**	EPA 9315	615447		
92686684013	**MCD-B-102D**	EPA 9315	616172		
92686684014	**MCD-B-82**	EPA 9315	616172		
92686684015	**MCD-B-66**	EPA 9315	616172		
92686684016	**MCD-B-106D**	EPA 9315	616172		
92686684017	**MCD-AP234-FD-4**	EPA 9315	616172		
92686684018	**MCD-AP234-EB-5**	EPA 9315	616172		
92686684019	**MCD-B-77**	EPA 9315	616172		
92686684020	**MCD-B-83**	EPA 9315	616172		
92686684021	**MCD-B-88**	EPA 9315	616172		
92686684022	**MCD-B-107D**	EPA 9315	616172		
92686684023	**MCD-B-120D**	EPA 9315	616760		
92686684024	**MCD-B-104D**	EPA 9315	616760		
92686684025	**MCD-B-108D**	EPA 9315	616760		
92686684026	**MCD-B-111D**	EPA 9315	616760		
92686684027	**MCD-B-125D**	EPA 9315	616760		
92686684001	**MCD-B-93**	EPA 9320	615448		
92686684002	**MCD-B-92**	EPA 9320	615448		
92686684003	**MCD-B-97**	EPA 9320	615448		
92686684004	**MCD-B-98**	EPA 9320	615448		
92686684005	**MCD-AP234-FB-4**	EPA 9320	615448		
92686684006	**MCD-AP234-EB-4**	EPA 9320	615448		
92686684007	**MCD-B-63**	EPA 9320	615448		
92686684008	**MCD-B-122D**	EPA 9320	615448		
92686684009	**MCD-B-101D**	EPA 9320	615448		
92686684010	**MCD-B-56**	EPA 9320	615448		
92686684011	**MCD-AP234-FD-5**	EPA 9320	615448		
92686684012	**MCD-AP234-FB-5**	EPA 9320	615448		
92686684013	**MCD-B-102D**	EPA 9320	616402		
92686684014	**MCD-B-82**	EPA 9320	616402		
92686684015	**MCD-B-66**	EPA 9320	616402		
92686684016	**MCD-B-106D**	EPA 9320	616402		
92686684017	**MCD-AP234-FD-4**	EPA 9320	616402		
92686684018	**MCD-AP234-EB-5**	EPA 9320	616402		
92686684019	**MCD-B-77**	EPA 9320	616402		
92686684020	**MCD-B-83**	EPA 9320	616402		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessmen-RAD
Pace Project No.: 92686684

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686684021	**MCD-B-88**	EPA 9320	616402		
92686684022	**MCD-B-107D**	EPA 9320	616402		
92686684023	**MCD-B-120D**	EPA 9320	616402		
92686684024	**MCD-B-104D**	EPA 9320	616402		
92686684025	**MCD-B-108D**	EPA 9320	616402		
92686684026	**MCD-B-111D**	EPA 9320	616402		
92686684027	**MCD-B-125D**	EPA 9320	616402		
92686684001	**MCD-B-93**	Total Radium Calculation	619760		
92686684002	**MCD-B-92**	Total Radium Calculation	619760		
92686684003	**MCD-B-97**	Total Radium Calculation	619760		
92686684004	**MCD-B-98**	Total Radium Calculation	619760		
92686684005	**MCD-AP234-FB-4**	Total Radium Calculation	619760		
92686684006	**MCD-AP234-EB-4**	Total Radium Calculation	619760		
92686684007	**MCD-B-63**	Total Radium Calculation	619760		
92686684008	**MCD-B-122D**	Total Radium Calculation	619760		
92686684009	**MCD-B-101D**	Total Radium Calculation	619760		
92686684010	**MCD-B-56**	Total Radium Calculation	619760		
92686684011	**MCD-AP234-FD-5**	Total Radium Calculation	619760		
92686684012	**MCD-AP234-FB-5**	Total Radium Calculation	619760		
92686684013	**MCD-B-102D**	Total Radium Calculation	620330		
92686684014	**MCD-B-82**	Total Radium Calculation	620330		
92686684015	**MCD-B-66**	Total Radium Calculation	620330		
92686684016	**MCD-B-106D**	Total Radium Calculation	620330		
92686684017	**MCD-AP234-FD-4**	Total Radium Calculation	620330		
92686684018	**MCD-AP234-EB-5**	Total Radium Calculation	620330		
92686684019	**MCD-B-77**	Total Radium Calculation	620332		
92686684020	**MCD-B-83**	Total Radium Calculation	620332		
92686684021	**MCD-B-88**	Total Radium Calculation	620332		
92686684022	**MCD-B-107D**	Total Radium Calculation	620332		
92686684023	**MCD-B-120D**	Total Radium Calculation	620771		
92686684024	**MCD-B-104D**	Total Radium Calculation	620771		
92686684025	**MCD-B-108D**	Total Radium Calculation	620771		
92686684026	**MCD-B-111D**	Total Radium Calculation	620771		
92686684027	**MCD-B-125D**	Total Radium Calculation	620771		

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Pace ANALYTICAL SERVICES

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

Effective Date: 11/14/2022

oratory receiving samples:

sheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: Ga - Power

Project # **WO# : 92686684**

92686684

urier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client | Commercial ☐ Pace ☐ Other:

stody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 9-7-23 JC

cking Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

ermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

ıoler Temp: 2.3 **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

ıoler Temp Corrected (°C) 2.3

iDA Regulated Soil (☐ N/A, water sample)

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

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

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

OMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

ENT NOTIFICATION/RESOLUTION

erson 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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92686684**

PM: BV Due Date: 09/28/23

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)	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)
1		2 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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

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
Fax	
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Laurel Coker
Copy To:	WSP
Purchase Order #:	
Project Name:	Plant McD AP-234 Assessment
Project #:	31406440.McD23

Section C
Invoice Information:

Attention:	cainvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	

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): MATRIX CODE — Drinking Water — Water — Waste Water — Product — Soil/Solid — Oil — Wipe — Air — Other — Tissue; CODED — DW — WT — WW — P — SL — OL — WP — AR — OT — TS

Preservatives

Analyses Test — Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	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	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686684
																Y/N	N	N	N	N	N	N		
1	MCD-B-93	WG	G	9/6/23	11:49		7	3		3		1					X	X	X	X	X	X		001
2	MCD-B-92	WG	G	9/6/23	11:38		7	3		3		1					X	X	X	X	X	X		002
3	MCD-B-97	WG	G	9/6/23	13:20		7	3		3		1					X	X	X	X	X	X		003
4	MCD-B-98	WG	G	9/6/23	15:19		7	3		3		1					X	X	X	X	X	X		004
6	MCD-AP234-FB-4	WQ	G	9/6/2023	11:30		7	3		3		1					X	X	X	X	X	X		005
7	MCD-AP234-EB-4	WQ	G	9/6/2023	12:00		7	3		3		1					X	X	X	X	X	X		006
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-202362	[illegible]	09/07/23	0900	[illegible] 834	9/7/23	
	[illegible]	09/07/23	0900			

DATE Signed:

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

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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92686684**

PM: BV **Due Date: 09/28/23**

CLIENT: 92-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: 9/8/23

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

***Check all unpreserved Nitrates for chlorine

Project # **W0# : 92686684**

PM: BV Due Date: 09/28/23

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	1			1	1																	2				
2		2	1			1	1																	2				
3		2	1			1	1																	2				
4		2	1			1	1																	2				
5		2	1			1	1																	2				
6		2	1			1	1																	2				
7		2	1			1	1																	2				
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.

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IIIIV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686664
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	MCD-B-63	WG	G	9/7/23	12:06		7	3		3		1					X	X	X	X	X	X		07
2	MCD-B-122D	WG	G	9/7/23	15:11		7	3		3		1					X	X	X	X	X	X		09
3	MCD-B-101D	WG	G	9/8/23	10:35		9	3		5		1					X	X	X	X	X	X		09 EXTRA RADS
4	MCD-B-56	WG	G	9/8/23	10:38		7	3		3		1					X	X	X	X	X	X		010
5	MCD-AP234-FD-5	WG	G	9/7/23	--		7	3		3		1					X	X	X	X	X	X		011
7	MCD-AP234-FB-5	WG	G	9/7/23	12:35		7	3		3		1					X	X	X	X	X	X		012
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	09/08/23	1550		9/8 1550	

DATE Signed:

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scainvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 629-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31408440.MCD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved = 3oz	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV + Hg, Mo, K, Fe	Cl, F, SO4	Radium 226/228	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686684
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															N	N	N	N	N	N		
1	MCD-B-102D	WG	G	9/11/23	10:48		7	3		3		1					X	X	X	X	X	X		013
2	MCD-B-52	WG	G	9/11/23	11:57		7	3		3		1					X	X	X	X	X	X		014
3	MCD-B-66	WG	G	9/11/23	13:57		7	3		3		1					X	X	X	X	X	X		015
4	MCD-B-108D	WG	G	9/11/23	15:36		7	3		3		1					X	X	X	X	X	X		016
5	MCD-AP234-FD-4	WG	G	9/11/23	--		7	3		3		1					X	X	X	X	X	X		017
7	MCD-AP234-EB-5	WQ	Q	9/11/23	11:58		7	3		3		1					X	X	X	X	X	X		018
6																								
8																								
9																								
10																								
11																								
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14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Task Code = MCD-CCR-ASSMT-202352	MARK MANN WSP	09/12/23	830	[illegible] 834	9/12/23				
					9/12/23				

DATE Signed:

Pace

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 #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

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

Date/Initials Person Examining Contents: 4-12-23 [illegible]

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: 4.8 **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): 4.8

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

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)	DG9Y-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)	BP1N	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7																													
8																													
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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.

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#: 92686684**

PM: BV Due Date: 09/28/23

CLIENT: 92-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: 4-13-23 AO

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: 2.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.9

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

Qualtrax ID: 69614

Pace

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#: 92686684

PM: BV **Due Date: 09/28/23**

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)	DG9W-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (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)	BP3N	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				
2		2	1			1																			2				
3		2	1			1																			4				
4		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: (470) 620-6176 Fax:
Requested Due Date: 10 Day TAT

Section B — Required Project Information:
Report To: Lauren Coker
Copy To: WSP
Purchase Order #:
Project Name: Plant McD AP-234 Assessment
Project #: 31406440.McD23

Section C — Invoice Information:
Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Vang
Pace Profile #:

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App. III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9613/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N	N	N		
1	MCD-B-77	WG	G	9/12/23	11:06		7	3		3		1					X	X	X	X	X	X		019
2	MCD-B-83	WG	G	9/12/23	13:03		7	3		3		1					X	X	X	X	X	X		020
3	MCD-B-88	WG	G	9/12/23	14:10		8	3		5		1					X	X	X	X	X	X		021 Extra Rads
4	MCD-B-107D	WG	G	9/12/23	9:45		7	3		3		1					X	X	X	X	X	X		022
5	MCD-B-120D	WG	G	9/12/23	9:36		7	3		3		1					X	X	X	X	X	X		023
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

926866664

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/13/23	836	BAH	9-13-23	
					9-13-23	

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 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#: 92686684

PM: BV Due Date: 09/28/23

CLIENT: 92-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: 9-14-23

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 093

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 **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): 3.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project # WO#: 92686684

PM: BV Due Date: 09/28/23

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)	BPZN	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5							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.

Pace Analytical

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92666684
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N	N	N		
1	MCD-B-104D	WG	G	9/13/23	12:34		7	3		3		1					X	X	X	X	X	X		024
2	MCD-B-108D	WG	G	9/13/23	13:54		7	3		3		1					X	X	X	X	X	X		025
3	MCD-B-111D	WG	G	9/13/23	12:42		7	3		3		1					X	X	X	X	X	X		026
4	MCD-B-125D	WG	G	9/14/23	10:00		7	3		3		1					X	X	X	X	X	X		027
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/14/23	1422		9/14/23	1422

DATE Signed:

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/21/2023
Worklist:	75370
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3001841
MB concentration:	0.005
M/B 2 Sigma CSU:	0.288
MB MDC:	0.675
MB Numerical Performance Indicator:	0.04
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75370	LCSD75370
Count Date:	9/27/2023	9/27/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.656	39.656
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.816
Target Conc. (pCi/L, g, F):	4.865	4.861
Uncertainty (Calculated):	0.238	0.238
Result (pCi/L, g, F):	5.836	4.985
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.300	1.141
Numerical Performance Indicator:	1.44	0.21
Percent Recovery:	119.95%	102.54%
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.:	LCS75370	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75370	
Sample Result (pCi/L, g, F):	5.836	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.300	
Sample Duplicate Result (pCi/L, g, F):	4.985	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.141	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.965	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.65%	
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:

VAL
9/28/23

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/26/2023
Worklist:	75356
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3000655
MB concentration:	0.045
M/B 2 Sigma CSU:	0.105
MB MDC:	0.248
MB Numerical Performance Indicator:	0.85
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75356	LCSD75356
Count Date:	10/4/2023	10/4/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.502
Target Conc. (pCi/L, g, F):	4.999	4.988
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.947	5.041
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.897	0.896
Numerical Performance Indicator:	-0.11	0.11
Percent Recovery:	98.95%	101.06%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS75356	92686980009
Duplicate Sample I.D.	LCSD75356	92686980009DUP
Sample Result (pCi/L, g, F):	4.947	0.136
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.897	0.137
Sample Duplicate Result (pCi/L, g, F):	5.041	0.212
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.896	0.166
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.145	-0.696
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.11%	43.85%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

UAM 10/4/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/26/2023
Worklist:	75407
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3003588
MB concentration:	0.011
M/B 2 Sigma CSU:	0.102
MB MDC:	0.265
MB Numerical Performance Indicator:	0.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75407	LCSD75407
Count Date:	10/5/2023	10/5/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.998	4.981
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	5.480	5.211
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.964	0.927
Numerical Performance Indicator:	0.95	0.47
Percent Recovery:	109.66%	104.62%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS75407	92686980019
Duplicate Sample I.D.	LCSD75407	92686980019DUP
Sample Result (pCi/L, g, F):	5.480	0.251
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.964	0.154
Sample Duplicate Result (pCi/L, g, F):	5.211	0.173
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.927	0.144
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.395	0.730
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.70%	37.05%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

LAM 10/5/23

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 18, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Background Wells- RAD
Pace Project No.: 92686685

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 07, 2023 and September 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

Revision 1: Report revised to amend collected time for MCD-DGWA-71.

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

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CERTIFICATIONS

Project: Background Wells- RAD
Pace Project No.: 92686685

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Background Wells- RAD
Pace Project No.: 92686685

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686685001	**MCD-DGWA-70A**	Water	09/06/23 12:45	09/07/23 00:00
92686685002	**MCD-DGWA-71**	Water	09/06/23 16:09	09/07/23 00:00
92686685003	**MCD-DGWA-53**	Water	09/07/23 10:53	09/08/23 15:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Background Wells- RAD
Pace Project No.: 92686685

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92686685001	**MCD-DGWA-70A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686685002	**MCD-DGWA-71**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686685003	**MCD-DGWA-53**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Background Wells- RAD
Pace Project No.: 92686685

Sample: MCD-DGWA-70A **Lab ID: 92686685001** Collected: 09/06/23 12:45 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0368U ± 0.0854 (0.202) C:91% T:NA**	pCi/L	10/02/23 13:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.614U ± 0.394 (0.750) C:80% T:92%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.651U ± 0.479 (0.952)**	pCi/L	10/03/23 15:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Background Wells- RAD
Pace Project No.: 92686685

Sample: MCD-DGWA-71 **Lab ID: 92686685002** Collected: 09/06/23 16:09 Received: 09/07/23 00:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.203U ± 0.130 (0.215) C:92% T:NA**	pCi/L	10/02/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.369U ± 0.305 (0.595) C:81% T:86%**	pCi/L	09/26/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.572U ± 0.435 (0.810)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Background Wells- RAD
Pace Project No.: 92686685

Sample: MCD-DGWA-53 **Lab ID: 92686685003** Collected: 09/07/23 10:53 Received: 09/08/23 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	**1.49 ± 0.350 (0.173) C:89% T:NA**	pCi/L	10/02/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.666U ± 0.428 (0.807) C:76% T:84%**	pCi/L	09/26/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.16 ± 0.778 (0.980)**	pCi/L	10/03/23 15:18	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Background Wells- RAD
Pace Project No.: 92686685

QC Batch: 615444
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686685001, 92686685002, 92686685003

METHOD BLANK: 2997136 Matrix: Water
Associated Lab Samples: 92686685001, 92686685002, 92686685003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.131 ± 0.132 (0.266) C:78% T:NA	pCi/L	10/02/23 13:17	

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: Background Wells- RAD
Pace Project No.: 92686685

QC Batch: 615445
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686685001, 92686685002, 92686685003

METHOD BLANK: 2997141 Matrix: Water
Associated Lab Samples: 92686685001, 92686685002, 92686685003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.465 ± 0.323 (0.609) C:77% T:85%	pCi/L	09/26/23 12:28	

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: Background Wells- RAD
Pace Project No.: 92686685

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Background Wells- RAD
Pace Project No.: 92686685

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686685001	**MCD-DGWA-70A**	EPA 9315	615444		
92686685002	**MCD-DGWA-71**	EPA 9315	615444		
92686685003	**MCD-DGWA-53**	EPA 9315	615444		
92686685001	**MCD-DGWA-70A**	EPA 9320	615445		
92686685002	**MCD-DGWA-71**	EPA 9320	615445		
92686685003	**MCD-DGWA-53**	EPA 9320	615445		
92686685001	**MCD-DGWA-70A**	Total Radium Calculation	619773		
92686685002	**MCD-DGWA-71**	Total Radium Calculation	619773		
92686685003	**MCD-DGWA-53**	Total Radium Calculation	619773		

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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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga-Power

Project #: **WO# : 92686685**

92686685

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

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

Date/Initials Person Examining Contents: 9-7-23 JC

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: 2.3 **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): 2.3

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92686685**

PM: BV Due Date: 09/28/23

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-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																	2				
2		2	1			1		1																	2				
3		2	1			1		1																	2				
4		2	1			1		1																	2				
5		2	1			1		1																	2				
6																													
7																													
8																													
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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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scainvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Background Wells	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31405440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686685
								Preservatives								Y/N	N	N	N	N	N	N	
1	MCD-DGWA-70A	WG	G	9/6/23	12:45		7	3		3		1					X	X	X	X	X	X	001
3	MCD-DGWA-71	WG	G	9/6/23	16:09		7	3		3		1					X	X	X	X	X	X	002
5																							
6																							
7																							
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12																							
13																							
14																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code - MCD-GOR-ACCMT-[illegible]	[illegible] WSP	09/09/23	0900	[illegible]	9/9/23	

DATE Signed:

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

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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92686685**

PM: BV Due Date: 09/28/23

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/8/23 [illegible]

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92686685

PM: BV Due Date: 09/28/23

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	1	2		1	1																	2 BP1U				
2																												
3																												
4																												
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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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: WSP	Company Name:
Email: lbcoker@southernco.com	Purchase Order #:	Address:
Phone: (470) 626-6176 Fax:	Project Name: Background Wells	Pace Quote:
Requested Due Date: 10 Day TAT	Project #: 31406440 McD23	Pace Project Manager: Bonnie Vang
		Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Agg III/V + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Y/N	N	N	N	N	N	N	
1	MCD-DGWA-53	WG	G	9/7/23	10:53		7	3		3		1					X	X	X	X	X	X	
3																							
5																							
6																							
7																							
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14																							

9268 6665

W3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MEUX WSP	09/08/23	1550	FCC - Pace	9/8/23	

DATE Signed:

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/19/2023
Worklist:	75311
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2997141
MB concentration:	0.465
M/B 2 Sigma CSU:	0.323
MB MDC:	0.609
MB Numerical Performance Indicator:	2.83
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75311	LCSD75311
Count Date:	9/26/2023	9/26/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.668	39.668
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.817
Target Conc. (pCi/L, g, F):	4.854	4.857
Uncertainty (Calculated):	0.238	0.238
Result (pCi/L, g, F):	4.557	3.686
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.042	0.891
Numerical Performance Indicator:	-0.54	-2.49
Percent Recovery:	93.89%	75.90%
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.:	LCS75311	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75311	
Sample Result (pCi/L, g, F):	4.557	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.042	
Sample Duplicate Result (pCi/L, g, F):	3.686	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.891	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.245	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.19%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
9/27/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/20/2023
Worklist:	75310
Matrix:	WI

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2997136
MB concentration:	0.131
M/B 2 Sigma CSU:	0.132
MB MDC:	0.266
MB Numerical Performance Indicator:	1.94
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75310	LCSD75310
Count Date:	10/3/2023	10/3/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.504
Target Conc. (pCi/L, g, F):	4.951	4.969
Uncertainty (Calculated):	0.233	0.234
Result (pCi/L, g, F):	4.534	5.823
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.814	1.006
Numerical Performance Indicator:	-0.96	1.62
Percent Recovery:	91.59%	117.17%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS75310	92686680007
Duplicate Sample I.D.	LCSD75310	92686680007DUP
Sample Result (pCi/L, g, F):	4.534	0.233
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.814	0.134
Sample Duplicate Result (pCi/L, g, F):	5.823	0.176
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.006	0.137
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.951	0.580
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	24.51%	27.72%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

ET 10-3-23

VAM 10/3/23

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 10, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 08, 2023 and September 14, 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686947001	**MCD-DGWC-14**	Water	09/08/23 08:57	09/08/23 15:50
92686947002	**MCD-DGWC-11**	Water	09/08/23 09:25	09/08/23 15:50
92686947003	**MCD-DGWC-15**	Water	09/08/23 10:25	09/08/23 15:50
92686947004	**MCD-DGWC-19**	Water	09/08/23 11:44	09/08/23 15:50
92686947005	**MCD-DGWC-13**	Water	09/08/23 12:00	09/08/23 15:50
92686947006	**MCD-AP234-FD-2**	Water	09/08/23 00:00	09/08/23 15:50
92686947007	**MCD-AP234-FB-2**	Water	09/08/23 12:20	09/08/23 15:50
92686947008	**MCD-AP234-EB-2**	Water	09/08/23 12:30	09/08/23 15:50
92686947009	**MCD-DGWC-20**	Water	09/11/23 09:22	09/12/23 08:30
92686947010	**MCD-DGWC-12**	Water	09/11/23 10:10	09/12/23 08:30
92686947011	**MCD-DGWC-21**	Water	09/11/23 11:26	09/12/23 08:30
92686947012	**MCD-DGWC-22**	Water	09/11/23 13:19	09/12/23 08:30
92686947013	**MCD-DGWC-10**	Water	09/11/23 13:15	09/12/23 08:30
92686947014	**MCD-DGWC-23**	Water	09/11/23 14:39	09/12/23 08:30
92686947015	**MCD-AP234-FD-3**	Water	09/11/23 00:00	09/12/23 08:30
92686947016	**MCD-AP234-FB-3**	Water	09/11/23 10:05	09/12/23 08:30
92686947017	**MCD-AP234-EB-3**	Water	09/11/23 15:30	09/12/23 08:30
92686947018	**MCD-DGWC-47**	Water	09/12/23 11:28	09/13/23 08:36
92686947019	**MCD-DGWC-8**	Water	09/12/23 11:12	09/13/23 08:36
92686947020	**MCD-DGWC-2**	Water	09/13/23 10:48	09/14/23 14:22
92686947021	**MCD-DGWC-4**	Water	09/13/23 14:54	09/14/23 14:22
92686947022	**MCD-DGWC-5**	Water	09/13/23 10:38	09/14/23 14:22
92686947023	**MCD-DGWC-17**	Water	09/13/23 12:20	09/14/23 14:22
92686947024	**MCD-DGWC-42**	Water	09/13/23 14:47	09/14/23 14:22
92686947025	**MCD-DGWC-48**	Water	09/13/23 10:20	09/14/23 14:22

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92686947001	**MCD-DGWC-14**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947002	**MCD-DGWC-11**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947003	**MCD-DGWC-15**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947004	**MCD-DGWC-19**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947005	**MCD-DGWC-13**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947006	**MCD-AP234-FD-2**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947007	**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
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947008	**MCD-AP234-EB-2**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947009	**MCD-DGWC-20**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947010	**MCD-DGWC-12**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947011	**MCD-DGWC-21**	EPA 6010D	DRB	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-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947012	**MCD-DGWC-22**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947013	**MCD-DGWC-10**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947014	**MCD-DGWC-23**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947015	**MCD-AP234-FD-3**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947016	**MCD-AP234-FB-3**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947017	**MCD-AP234-EB-3**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947018	**MCD-DGWC-47**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947019	**MCD-DGWC-8**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92686947020	**MCD-DGWC-2**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686947021	**MCD-DGWC-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686947022	**MCD-DGWC-5**	EPA 6010D	DRB	5

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

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
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686947023	**MCD-DGWC-17**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686947024	**MCD-DGWC-42**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92686947025	**MCD-DGWC-48**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-14 **Lab ID: 92686947001** Collected: 09/08/23 08:57 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 17:38	7439-89-6	
Potassium	**3.3**	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 17:38	7440-09-7	
Sodium	**7.1**	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 17:38	7440-23-5	
Calcium	**12.0**	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 17:38	7440-70-2	
Magnesium	**4.9**	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 17:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/12/23 07:45	09/15/23 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 17:38	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 17:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 17:38	7440-41-7	
Boron	**0.11**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 17:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 17:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 17:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 17:38	7439-92-1	
Lithium	**0.0041J**	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 17:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 17:38	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 17:38	7782-49-2	
Thallium	**0.00056J**	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 17:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 17:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**156**	mg/L	25.0	25.0	1		09/12/23 12:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.7**	mg/L	5.0	5.0	1		09/14/23 12:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:25		
Alkalinity, Total as CaCO3	**15.7**	mg/L	5.0	5.0	1		09/14/23 12:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/13/23 01:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 01:38	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-14 **Lab ID: 92686947001** Collected: 09/08/23 08:57 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**43.1**	mg/L	1.0	0.50	1		09/13/23 01:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-11 **Lab ID: 92686947002** Collected: 09/08/23 09:25 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 17:43	7439-89-6	
Potassium	**4.2**	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 17:43	7440-09-7	
Sodium	**20.9**	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 17:43	7440-23-5	
Calcium	**58.6**	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 17:43	7440-70-2	
Magnesium	**30.2**	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 17:43	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	0.0012	1	09/12/23 07:45	09/15/23 17:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 17:42	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 17:42	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 17:42	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 17:42	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 17:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 17:42	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 17:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 17:42	7439-92-1	
Lithium	**0.0017J**	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 17:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 17:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 17:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 17:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00048**	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**451**	mg/L	25.0	25.0	1		09/13/23 11:44		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.6**	mg/L	5.0	5.0	1		09/14/23 12:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:31		
Alkalinity, Total as CaCO3	**13.6**	mg/L	5.0	5.0	1		09/14/23 12:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.2**	mg/L	1.0	0.60	1		09/13/23 03:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 03:38	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-11 **Lab ID: 92686947002** Collected: 09/08/23 09:25 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**256**	mg/L	5.0	2.5	5		09/13/23 10:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-15 **Lab ID: 92686947003** Collected: 09/08/23 10:25 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.13**	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 17:48	7439-89-6	
Potassium	**4.7**	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 17:48	7440-09-7	
Sodium	**21.6**	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 17:48	7440-23-5	
Calcium	**34.3**	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 17:48	7440-70-2	
Magnesium	**14.6**	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 17:48	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	0.0012	1	09/12/23 07:45	09/18/23 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 17:59	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 17:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 17:59	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 17:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 17:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 17:59	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 17:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 17:59	7439-92-1	
Lithium	**0.0051J**	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 17:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 17:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 17:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 17:59	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	10/02/23 13:15	10/02/23 18:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**274**	mg/L	25.0	25.0	1		09/13/23 11:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.5**	mg/L	5.0	5.0	1		09/14/23 12:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:36		
Alkalinity, Total as CaCO3	**17.5**	mg/L	5.0	5.0	1		09/14/23 12:36		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.0**	mg/L	1.0	0.60	1		09/13/23 03:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 03:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-15 **Lab ID: 92686947003** Collected: 09/08/23 10:25 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**126**	mg/L	3.0	1.5	3		09/13/23 10:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-19 **Lab ID: 92686947004** Collected: 09/08/23 11:44 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 17:53	7439-89-6	
Potassium	**4.4**	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 17:53	7440-09-7	
Sodium	**40.0**	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 17:53	7440-23-5	
Calcium	**115**	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 17:53	7440-70-2	
Magnesium	**11.5**	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 17:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.0012	1	09/12/23 07:45	09/15/23 18:03	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 18:03	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 18:03	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 18:03	7440-41-7	
Boron	**2.2**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 18:03	7440-42-8	
Cadmium	**0.00034J**	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 18:03	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 18:03	7440-47-3	B
Cobalt	**0.051**	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 18:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 18:03	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 18:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 18:03	7439-98-7	
Selenium	**0.0045J**	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 18:03	7782-49-2	
Thallium	**0.00050J**	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 18:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**634**	mg/L	25.0	25.0	1		09/13/23 11:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 12:53		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 12:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.8**	mg/L	1.0	0.60	1		09/13/23 04:08	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.050	1		09/13/23 04:08	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-19 **Lab ID: 92686947004** Collected: 09/08/23 11:44 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**369**	mg/L	8.0	4.0	8		09/13/23 10:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-13 **Lab ID: 92686947005** Collected: 09/08/23 12:00 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 18:04	7439-89-6	
Potassium	**4.7**	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 18:04	7440-09-7	
Sodium	**17.5**	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 18:04	7440-23-5	M1
Calcium	**32.7**	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 18:04	7440-70-2	M1
Magnesium	**7.3**	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 18:04	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/12/23 07:45	09/15/23 18:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 18:07	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 18:07	7440-39-3	
Beryllium	**0.000087J**	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 18:07	7440-41-7	
Boron	**0.55**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 18:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 18:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 18:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 18:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 18:07	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 18:07	7439-93-2	
Molybdenum	**0.0073J**	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 18:07	7439-98-7	
Selenium	**0.0029J**	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 18:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 18:07	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	10/02/23 13:15	10/02/23 18:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**217**	mg/L	25.0	25.0	1		09/13/23 11:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**21.6**	mg/L	5.0	5.0	1		09/14/23 14:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:27		
Alkalinity, Total as CaCO3	**21.6**	mg/L	5.0	5.0	1		09/14/23 14:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.7**	mg/L	1.0	0.60	1		09/13/23 04:23	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		09/13/23 04:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-13 **Lab ID: 92686947005** Collected: 09/08/23 12:00 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**98.7**	mg/L	2.0	1.0	2		09/13/23 11:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FD-2 **Lab ID: 92686947006** Collected: 09/08/23 00:00 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.098**	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 18:35	7439-89-6	
Potassium	**4.5**	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 18:35	7440-09-7	
Sodium	**21.3**	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 18:35	7440-23-5	
Calcium	**34.0**	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 18:35	7440-70-2	
Magnesium	**14.5**	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 18:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/12/23 07:45	09/15/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 18:24	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 18:24	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 18:24	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 18:24	7439-92-1	
Lithium	**0.0052J**	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**278**	mg/L	25.0	25.0	1		09/13/23 11:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**20.2**	mg/L	5.0	5.0	1		09/14/23 14:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:33		
Alkalinity, Total as CaCO3	**20.2**	mg/L	5.0	5.0	1		09/14/23 14:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.1**	mg/L	1.0	0.60	1		09/13/23 04:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 04:38	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FD-2 **Lab ID: 92686947006** Collected: 09/08/23 00:00 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**127**	mg/L	3.0	1.5	3		09/13/23 11:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FB-2 **Lab ID: 92686947007** Collected: 09/08/23 12:20 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/27/23 14:50	10/03/23 14:25	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/27/23 14:50	10/03/23 14:25	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/27/23 14:50	10/03/23 14:25	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/27/23 14:50	10/03/23 14:25	7440-70-2	
Magnesium	**0.013J**	mg/L	0.050	0.012	1	09/27/23 14:50	10/03/23 14:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/12/23 07:45	09/15/23 18:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 18:28	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 18:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 18:28	7440-41-7	
Boron	**0.019J**	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 18:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 18:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 18:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 18:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 18:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 18:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 18:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 18:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 18:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/13/23 11:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:39		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 14:39		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/13/23 04:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 04:53	16984-48-8	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FB-2 **Lab ID: 92686947007** Collected: 09/08/23 12:20 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/13/23 04:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-EB-2 **Lab ID: 92686947008** Collected: 09/08/23 12:30 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/23 07:50	09/12/23 18:45	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/12/23 07:50	09/12/23 18:45	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/12/23 07:50	09/12/23 18:45	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/12/23 07:50	09/12/23 18:45	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/12/23 07:50	09/12/23 18:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/12/23 07:45	09/15/23 18:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/12/23 07:45	09/15/23 18:32	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/12/23 07:45	09/15/23 18:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/12/23 07:45	09/15/23 18:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/12/23 07:45	09/15/23 18:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/23 07:45	09/15/23 18:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/23 07:45	09/15/23 18:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/23 07:45	09/15/23 18:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/12/23 07:45	09/15/23 18:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/23 07:45	09/15/23 18:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/23 07:45	09/15/23 18:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/23 07:45	09/15/23 18:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/23 07:45	09/15/23 18:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**101**	mg/L	25.0	25.0	1		09/13/23 11:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 14:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/13/23 02:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/13/23 05:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/13/23 05:08	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-EB-2 **Lab ID: 92686947008** Collected: 09/08/23 12:30 Received: 09/08/23 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/13/23 05:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-20 **Lab ID: 92686947009** Collected: 09/11/23 09:22 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.20	0.13	5	09/13/23 12:00	09/20/23 16:52	7439-89-6	
Potassium	**13.0**	mg/L	2.5	0.76	5	09/13/23 12:00	09/20/23 16:52	7440-09-7	
Sodium	**18.9**	mg/L	5.0	2.9	5	09/13/23 12:00	09/20/23 16:52	7440-23-5	
Calcium	**114**	mg/L	5.0	0.61	5	09/13/23 12:00	09/20/23 16:52	7440-70-2	
Magnesium	**22.5**	mg/L	0.25	0.059	5	09/13/23 12:00	09/20/23 16:52	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0018J**	mg/L	0.0030	0.0012	1	09/13/23 13:00	09/20/23 13:57	7440-36-0	B
Arsenic	**0.029**	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 13:57	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 13:57	7440-39-3	
Beryllium	**0.0067**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 13:57	7440-41-7	M1
Boron	**2.5**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 13:57	7440-42-8	M1
Cadmium	**0.0038**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 13:57	7440-43-9	
Chromium	**0.0026J**	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 13:57	7440-47-3	
Cobalt	**1.4**	mg/L	0.050	0.0039	10	09/13/23 13:00	09/22/23 15:09	7440-48-4	
Lead	ND	mg/L	0.10	0.012	100	09/13/23 13:00	09/22/23 15:43	7439-92-1	D3
Lithium	**0.011J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 13:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 13:57	7439-98-7	
Selenium	**0.14**	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 13:57	7782-49-2	
Thallium	ND	mg/L	0.10	0.018	100	09/13/23 13:00	09/22/23 15:43	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	10/02/23 13:15	10/02/23 18:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**960**	mg/L	25.0	25.0	1		09/13/23 11:49		D6
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:48		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 14:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**26.9**	mg/L	1.0	0.60	1		09/14/23 20:00	16887-00-6	
Fluoride	**1.5**	mg/L	0.10	0.050	1		09/14/23 20:00	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-20 **Lab ID: 92686947009** Collected: 09/11/23 09:22 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**552**	mg/L	11.0	5.5	11		09/15/23 09:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-12 **Lab ID: 92686947010** Collected: 09/11/23 10:10 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.8**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 12:34	7440-70-2	M1
Iron	**26.4**	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 12:34	7439-89-6	M1
Magnesium	**18.1**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 12:34	7439-95-4	
Potassium	**8.5**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 12:34	7440-09-7	
Sodium	**8.0**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 12:34	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/13/23 13:00	09/20/23 14:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:12	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:12	7440-39-3	
Beryllium	**0.000077J**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:12	7440-41-7	
Boron	**0.46**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:12	7440-47-3	
Cobalt	**0.017**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:12	7782-49-2	
Thallium	**0.00021J**	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**302**	mg/L	25.0	25.0	1		09/13/23 11:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**66.1**	mg/L	5.0	5.0	1		09/14/23 14:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 14:52		
Alkalinity, Total as CaCO3	**66.1**	mg/L	5.0	5.0	1		09/14/23 14:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.5**	mg/L	1.0	0.60	1		09/14/23 20:14	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		09/14/23 20:14	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-12 **Lab ID: 92686947010** Collected: 09/11/23 10:10 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**132**	mg/L	3.0	1.5	3		09/15/23 09:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-21 **Lab ID: 92686947011** Collected: 09/11/23 11:26 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 12:54	7439-89-6	
Potassium	**6.5**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 12:54	7440-09-7	
Sodium	**23.0**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 12:54	7440-23-5	
Calcium	**88.4**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 12:54	7440-70-2	
Magnesium	**18.8**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 12:54	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	0.0012	1	09/13/23 13:00	09/20/23 14:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:16	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:16	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:16	7440-41-7	
Boron	**7.1**	mg/L	0.40	0.086	10	09/13/23 13:00	09/22/23 15:21	7440-42-8	
Cadmium	**0.00054**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:16	7440-47-3	
Cobalt	**0.0097**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:16	7439-92-1	
Lithium	**0.0055J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**519**	mg/L	25.0	25.0	1		09/13/23 11:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**30.7**	mg/L	5.0	5.0	1		09/14/23 15:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:00		
Alkalinity, Total as CaCO3	**30.7**	mg/L	5.0	5.0	1		09/14/23 15:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		09/14/23 20:28	16887-00-6	
Fluoride	**0.054J**	mg/L	0.10	0.050	1		09/14/23 20:28	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-21 **Lab ID: 92686947011** Collected: 09/11/23 11:26 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**268**	mg/L	6.0	3.0	6		09/15/23 10:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-22 **Lab ID: 92686947012** Collected: 09/11/23 13:19 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:00	7439-89-6	
Potassium	**6.0**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:00	7440-09-7	
Sodium	**26.2**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:00	7440-23-5	
Calcium	**61.2**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:00	7440-70-2	
Magnesium	**22.0**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:00	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	0.0012	1	09/13/23 13:00	09/20/23 14:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:20	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:20	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:20	7440-41-7	
Boron	**3.9**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:20	7440-42-8	
Cadmium	**0.00060**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:20	7440-47-3	
Cobalt	**0.0074**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:20	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:20	7439-93-2	
Molybdenum	**0.00097J**	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**460**	mg/L	25.0	25.0	1		09/13/23 11:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.4**	mg/L	5.0	5.0	1		09/14/23 15:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:17		
Alkalinity, Total as CaCO3	**26.4**	mg/L	5.0	5.0	1		09/14/23 15:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.8**	mg/L	1.0	0.60	1		09/14/23 20:43	16887-00-6	
Fluoride	**0.054J**	mg/L	0.10	0.050	1		09/14/23 20:43	16984-48-8	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-22 **Lab ID: 92686947012** Collected: 09/11/23 13:19 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**236**	mg/L	5.0	2.5	5		09/15/23 10:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-10 **Lab ID: 92686947013** Collected: 09/11/23 13:15 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:05	7439-89-6	
Potassium	**5.5**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:05	7440-09-7	
Sodium	**11.1**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:05	7440-23-5	
Calcium	**72.7**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:05	7440-70-2	
Magnesium	**6.7**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:05	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	0.0012	1	09/13/23 13:00	09/20/23 14:24	7440-36-0	
Arsenic	**0.0065**	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:24	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:24	7440-39-3	
Beryllium	**0.0065**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:24	7440-41-7	
Boron	**0.28**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:24	7440-42-8	
Cadmium	**0.00060**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:24	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:24	7440-47-3	
Cobalt	**0.11**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:24	7440-48-4	
Lead	ND	mg/L	0.010	0.0012	10	09/13/23 13:00	09/22/23 15:25	7439-92-1	D3
Lithium	**0.0043J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:24	7439-98-7	
Selenium	**0.038**	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:24	7782-49-2	
Thallium	ND	mg/L	0.010	0.0018	10	09/13/23 13:00	09/22/23 15:25	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.0021**	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**436**	mg/L	25.0	25.0	1		09/13/23 11:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:23		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 15:23		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:54	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.1**	mg/L	1.0	0.60	1		09/14/23 20:57	16887-00-6	
Fluoride	**1.3**	mg/L	0.10	0.050	1		09/14/23 20:57	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-10 **Lab ID: 92686947013** Collected: 09/11/23 13:15 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**258**	mg/L	5.0	2.5	5		09/15/23 10:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-23 **Lab ID: 92686947014** Collected: 09/11/23 14:39 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:10	7439-89-6	
Potassium	**7.4**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:10	7440-09-7	
Sodium	**22.2**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:10	7440-23-5	
Calcium	**95.4**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:10	7440-70-2	
Magnesium	**23.0**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:10	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	0.0012	1	09/13/23 13:00	09/20/23 14:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:43	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:43	7440-39-3	
Beryllium	**0.00035J**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:43	7440-41-7	
Boron	**4.4**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:43	7440-47-3	
Cobalt	**0.00074J**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:43	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:43	7439-93-2	
Molybdenum	**0.0088J**	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**582**	mg/L	25.0	25.0	1		09/13/23 11:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**86.8**	mg/L	5.0	5.0	1		09/14/23 15:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:27		
Alkalinity, Total as CaCO3	**86.8**	mg/L	5.0	5.0	1		09/14/23 15:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.0**	mg/L	1.0	0.60	1		09/14/23 21:11	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/14/23 21:11	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-23 **Lab ID: 92686947014** Collected: 09/11/23 14:39 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**275**	mg/L	6.0	3.0	6		09/15/23 10:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FD-3 **Lab ID: 92686947015** Collected: 09/11/23 00:00 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:15	7439-89-6	
Potassium	**6.6**	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:15	7440-09-7	
Sodium	**22.9**	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:15	7440-23-5	
Calcium	**88.5**	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:15	7440-70-2	
Magnesium	**18.7**	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:15	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	0.0012	1	09/13/23 13:00	09/20/23 14:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:47	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:47	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:47	7440-41-7	
Boron	**7.0**	mg/L	0.40	0.086	10	09/13/23 13:00	09/22/23 15:29	7440-42-8	
Cadmium	**0.00052**	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:47	7440-47-3	
Cobalt	**0.0096**	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:47	7439-92-1	
Lithium	**0.0054J**	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**507**	mg/L	25.0	25.0	1		09/13/23 11:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**30.7**	mg/L	5.0	5.0	1		09/14/23 15:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:37		
Alkalinity, Total as CaCO3	**30.7**	mg/L	5.0	5.0	1		09/14/23 15:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.9**	mg/L	1.0	0.60	1		09/14/23 21:26	16887-00-6	
Fluoride	**0.054J**	mg/L	0.10	0.050	1		09/14/23 21:26	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FD-3 **Lab ID: 92686947015** Collected: 09/11/23 00:00 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**268**	mg/L	6.0	3.0	6		09/15/23 11:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FB-3 **Lab ID: 92686947016** Collected: 09/11/23 10:05 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:31	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:31	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:31	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:31	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:31	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/13/23 13:00	09/20/23 14:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:51	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:51	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:51	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	10/02/23 13:15	10/02/23 18:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/13/23 11:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:43		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 15:43		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/14/23 22:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/14/23 22:09	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-FB-3 **Lab ID: 92686947016** Collected: 09/11/23 10:05 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/14/23 22:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-EB-3 **Lab ID: 92686947017** Collected: 09/11/23 15:30 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/13/23 12:00	09/17/23 13:36	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	09/13/23 12:00	09/17/23 13:36	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/13/23 12:00	09/17/23 13:36	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/13/23 12:00	09/17/23 13:36	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/13/23 12:00	09/17/23 13:36	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	0.0012	1	09/13/23 13:00	09/20/23 14:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/13/23 13:00	09/20/23 14:55	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/13/23 13:00	09/20/23 14:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/23 13:00	09/20/23 14:55	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	09/13/23 13:00	09/20/23 14:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/23 13:00	09/20/23 14:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/23 13:00	09/20/23 14:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/23 13:00	09/20/23 14:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/13/23 13:00	09/20/23 14:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/23 13:00	09/20/23 14:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/23 13:00	09/20/23 14:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/23 13:00	09/20/23 14:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/23 13:00	09/20/23 14:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 18:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/13/23 11:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/14/23 15:48		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/14/23 15:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 04:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/14/23 22:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/14/23 22:52	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-AP234-EB-3 **Lab ID: 92686947017** Collected: 09/11/23 15:30 Received: 09/12/23 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		09/14/23 22:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-47 **Lab ID: 92686947018** Collected: 09/12/23 11:28 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.0**	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:22	7439-89-6	
Potassium	**5.3**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:22	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:22	7440-23-5	
Calcium	**21.9**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:22	7440-70-2	
Magnesium	**6.1**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:22	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	0.0012	1	09/14/23 11:00	09/25/23 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/25/23 17:07	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/25/23 17:07	7440-39-3	
Beryllium	**0.0081**	mg/L	0.0025	0.00027	5	09/14/23 11:00	09/26/23 17:17	7440-41-7	
Boron	**0.10**	mg/L	0.040	0.0086	1	09/14/23 11:00	09/25/23 17:07	7440-42-8	
Cadmium	**0.00083**	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/25/23 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/25/23 17:07	7440-47-3	
Cobalt	**0.18**	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/25/23 17:07	7440-48-4	
Lead	**0.00024J**	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/25/23 17:07	7439-92-1	
Lithium	**0.034**	mg/L	0.030	0.00073	1	09/14/23 11:00	09/25/23 17:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/25/23 17:07	7439-98-7	
Selenium	**0.0022J**	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/25/23 17:07	7782-49-2	
Thallium	**0.00019J**	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/25/23 17:07	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	10/02/23 13:15	10/02/23 18:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**218**	mg/L	25.0	25.0	1		09/18/23 12:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/18/23 15:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/18/23 15:35		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/18/23 15:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/15/23 05:09	16887-00-6	
Fluoride	**0.51**	mg/L	0.10	0.050	1		09/15/23 05:09	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-47 **Lab ID: 92686947018** Collected: 09/12/23 11:28 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**119**	mg/L	3.0	1.5	3		09/15/23 14:11	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-8 **Lab ID: 92686947019** Collected: 09/12/23 11:12 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/23 13:55	10/02/23 22:27	7439-89-6	
Potassium	**4.0**	mg/L	0.50	0.15	1	09/28/23 13:55	10/02/23 22:27	7440-09-7	
Sodium	**12.0**	mg/L	1.0	0.58	1	09/28/23 13:55	10/02/23 22:27	7440-23-5	
Calcium	**30.0**	mg/L	1.0	0.12	1	09/28/23 13:55	10/02/23 22:27	7440-70-2	
Magnesium	**13.9**	mg/L	0.050	0.012	1	09/28/23 13:55	10/02/23 22:27	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	0.0012	1	09/14/23 11:00	09/26/23 14:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/14/23 11:00	09/26/23 14:32	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/14/23 11:00	09/26/23 14:32	7440-39-3	
Beryllium	**0.0014**	mg/L	0.00050	0.000054	1	09/14/23 11:00	09/26/23 14:32	7440-41-7	
Boron	**0.75**	mg/L	0.040	0.0086	1	09/14/23 11:00	09/26/23 14:32	7440-42-8	
Cadmium	**0.0015**	mg/L	0.00050	0.00011	1	09/14/23 11:00	09/26/23 14:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/14/23 11:00	09/26/23 14:32	7440-47-3	
Cobalt	**0.0030J**	mg/L	0.0050	0.00039	1	09/14/23 11:00	09/26/23 14:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/14/23 11:00	09/26/23 14:32	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00073	1	09/14/23 11:00	09/26/23 14:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/14/23 11:00	09/26/23 14:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/14/23 11:00	09/26/23 14:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/14/23 11:00	09/26/23 14:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	10/02/23 13:15	10/02/23 19:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**251**	mg/L	25.0	25.0	1		09/18/23 12:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.2**	mg/L	5.0	5.0	1		09/18/23 15:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/18/23 15:38		
Alkalinity, Total as CaCO3	**5.2**	mg/L	5.0	5.0	1		09/18/23 15:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/15/23 05:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.5**	mg/L	1.0	0.60	1		09/15/23 05:23	16887-00-6	
Fluoride	**0.091J**	mg/L	0.10	0.050	1		09/15/23 05:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-8 **Lab ID: 92686947019** Collected: 09/12/23 11:12 Received: 09/13/23 08:36 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**134**	mg/L	3.0	1.5	3		09/15/23 14:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-2 **Lab ID: 92686947020** Collected: 09/13/23 10:48 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.16**	mg/L	0.040	0.025	1	09/28/23 13:55	10/03/23 13:30	7439-89-6	
Potassium	**5.0**	mg/L	0.50	0.15	1	09/28/23 13:55	10/03/23 13:30	7440-09-7	
Sodium	**8.5**	mg/L	1.0	0.58	1	09/28/23 13:55	10/03/23 13:30	7440-23-5	
Calcium	**33.6**	mg/L	1.0	0.12	1	09/28/23 13:55	10/03/23 13:30	7440-70-2	
Magnesium	**6.9**	mg/L	0.050	0.012	1	09/28/23 13:55	10/03/23 13:30	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/26/23 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:31	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:31	7440-41-7	
Boron	**0.38**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:31	7440-47-3	
Cobalt	**0.0024J**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:31	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:31	7439-93-2	
Molybdenum	**0.0022J**	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:31	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	09/26/23 07:00	09/26/23 13:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**212**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**46.6**	mg/L	5.0	5.0	1		09/19/23 16:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:28		
Alkalinity, Total as CaCO3	**46.6**	mg/L	5.0	5.0	1		09/19/23 16:28		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.9**	mg/L	1.0	0.60	1		09/17/23 00:58	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		09/17/23 00:58	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-2 **Lab ID: 92686947020** Collected: 09/13/23 10:48 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**95.5**	mg/L	1.0	0.50	1		09/17/23 00:58	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-4 **Lab ID: 92686947021** Collected: 09/13/23 14:54 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/23 13:55	10/03/23 13:35	7439-89-6	
Potassium	**9.6**	mg/L	0.50	0.15	1	09/28/23 13:55	10/03/23 13:35	7440-09-7	
Sodium	**51.9**	mg/L	1.0	0.58	1	09/28/23 13:55	10/03/23 13:35	7440-23-5	
Calcium	**279**	mg/L	1.0	0.12	1	09/28/23 13:55	10/03/23 13:35	7440-70-2	
Magnesium	**36.2**	mg/L	0.050	0.012	1	09/28/23 13:55	10/03/23 13:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/26/23 18:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:44	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:44	7440-39-3	
Beryllium	**0.00040J**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:44	7440-41-7	
Boron	**5.1**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:44	7440-42-8	
Cadmium	**0.00099**	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:44	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:44	7439-92-1	
Lithium	**0.0040J**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:44	7439-93-2	
Molybdenum	**0.0034J**	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1520**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		09/19/23 16:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:35		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		09/19/23 16:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.4**	mg/L	1.0	0.60	1		09/17/23 01:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/23 01:42	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-4 **Lab ID: 92686947021** Collected: 09/13/23 14:54 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**852**	mg/L	17.0	8.5	17		09/17/23 11:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-5 **Lab ID: 92686947022** Collected: 09/13/23 10:38 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/28/23 13:55	10/03/23 13:40	7439-89-6	
Potassium	**4.8**	mg/L	0.50	0.15	1	09/28/23 13:55	10/03/23 13:40	7440-09-7	
Sodium	**23.9**	mg/L	1.0	0.58	1	09/28/23 13:55	10/03/23 13:40	7440-23-5	
Calcium	**152**	mg/L	1.0	0.12	1	09/28/23 13:55	10/03/23 13:40	7440-70-2	
Magnesium	**25.9**	mg/L	0.050	0.012	1	09/28/23 13:55	10/03/23 13:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/26/23 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:48	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:48	7440-39-3	
Beryllium	**0.0084**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:48	7440-41-7	
Boron	**2.8**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:48	7440-42-8	
Cadmium	**0.0013**	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:48	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:48	7439-92-1	
Lithium	**0.0081J**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:48	7439-98-7	
Selenium	**0.0020J**	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00028**	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1020**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.5**	mg/L	5.0	5.0	1		09/19/23 16:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:47		
Alkalinity, Total as CaCO3	**5.5**	mg/L	5.0	5.0	1		09/19/23 16:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.5**	mg/L	1.0	0.60	1		09/17/23 01:57	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/17/23 01:57	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-5 **Lab ID: 92686947022** Collected: 09/13/23 10:38 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**576**	mg/L	12.0	6.0	12		09/17/23 11:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-17 **Lab ID: 92686947023** Collected: 09/13/23 12:20 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.041**	mg/L	0.040	0.025	1	09/28/23 13:55	10/03/23 13:45	7439-89-6	
Potassium	**3.8**	mg/L	0.50	0.15	1	09/28/23 13:55	10/03/23 13:45	7440-09-7	
Sodium	**18.3**	mg/L	1.0	0.58	1	09/28/23 13:55	10/03/23 13:45	7440-23-5	
Calcium	**19.8**	mg/L	1.0	0.12	1	09/28/23 13:55	10/03/23 13:45	7440-70-2	
Magnesium	**55.1**	mg/L	0.050	0.012	1	09/28/23 13:55	10/03/23 13:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/26/23 18:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:52	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:52	7440-39-3	
Beryllium	**0.00057**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:52	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:52	7440-42-8	
Cadmium	**0.00019J**	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:52	7440-43-9	
Chromium	**0.0027J**	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:52	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:52	7439-98-7	
Selenium	**0.0065**	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**480**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:53		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/19/23 16:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.2**	mg/L	1.0	0.60	1		09/17/23 02:12	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/17/23 02:12	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-17 **Lab ID: 92686947023** Collected: 09/13/23 12:20 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**255**	mg/L	6.0	3.0	6		09/17/23 11:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-42 **Lab ID: 92686947024** Collected: 09/13/23 14:47 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.098**	mg/L	0.040	0.025	1	09/28/23 13:55	10/03/23 13:51	7439-89-6	
Potassium	**5.2**	mg/L	0.50	0.15	1	09/28/23 13:55	10/03/23 13:51	7440-09-7	
Sodium	**71.3**	mg/L	1.0	0.58	1	09/28/23 13:55	10/03/23 13:51	7440-23-5	
Calcium	**33.6**	mg/L	1.0	0.12	1	09/28/23 13:55	10/03/23 13:51	7440-70-2	
Magnesium	**23.1**	mg/L	0.050	0.012	1	09/28/23 13:55	10/03/23 13:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	09/19/23 11:10	09/26/23 18:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 18:56	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 18:56	7440-39-3	
Beryllium	**0.0024**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 18:56	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 18:56	7440-42-8	
Cadmium	**0.00068**	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 18:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 18:56	7440-47-3	
Cobalt	**0.0080**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 18:56	7440-48-4	
Lead	**0.00018J**	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 18:56	7439-92-1	
Lithium	**0.0087J**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 18:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 18:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 18:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 18:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/23 07:00	09/26/23 13:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**545**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.7**	mg/L	5.0	5.0	1		09/19/23 16:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 16:58		
Alkalinity, Total as CaCO3	**6.7**	mg/L	5.0	5.0	1		09/19/23 16:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.4**	mg/L	1.0	0.60	1		09/17/23 02:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/17/23 02:26	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-42 **Lab ID: 92686947024** Collected: 09/13/23 14:47 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**294**	mg/L	6.0	3.0	6		09/17/23 11:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-48 **Lab ID: 92686947025** Collected: 09/13/23 10:20 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.3**	mg/L	0.040	0.025	1	09/28/23 13:55	10/03/23 13:56	7439-89-6	
Potassium	**12.0**	mg/L	0.50	0.15	1	09/28/23 13:55	10/03/23 13:56	7440-09-7	
Sodium	**17.4**	mg/L	1.0	0.58	1	09/28/23 13:55	10/03/23 13:56	7440-23-5	
Calcium	**55.0**	mg/L	1.0	0.12	1	09/28/23 13:55	10/03/23 13:56	7440-70-2	
Magnesium	**12.6**	mg/L	0.050	0.012	1	09/28/23 13:55	10/03/23 13:56	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	0.0012	1	09/19/23 11:10	09/26/23 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/19/23 11:10	09/26/23 19:00	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/19/23 11:10	09/26/23 19:00	7440-39-3	
Beryllium	**0.0065**	mg/L	0.00050	0.000054	1	09/19/23 11:10	09/26/23 19:00	7440-41-7	
Boron	**0.57**	mg/L	0.040	0.0086	1	09/19/23 11:10	09/26/23 19:00	7440-42-8	
Cadmium	**0.0026**	mg/L	0.00050	0.00011	1	09/19/23 11:10	09/26/23 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/23 11:10	09/26/23 19:00	7440-47-3	
Cobalt	**0.31**	mg/L	0.0050	0.00039	1	09/19/23 11:10	09/26/23 19:00	7440-48-4	
Lead	**0.00082J**	mg/L	0.0010	0.00012	1	09/19/23 11:10	09/26/23 19:00	7439-92-1	
Lithium	**0.096**	mg/L	0.030	0.00073	1	09/19/23 11:10	09/26/23 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/23 11:10	09/26/23 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/23 11:10	09/26/23 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/23 11:10	09/26/23 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	09/26/23 07:00	09/26/23 13:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**473**	mg/L	25.0	25.0	1		09/20/23 20:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 17:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/19/23 17:23		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/19/23 17:23		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/20/23 02:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.5**	mg/L	1.0	0.60	1		09/17/23 02:41	16887-00-6	
Fluoride	**0.51**	mg/L	0.10	0.050	1		09/17/23 02:41	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Sample: MCD-DGWC-48 **Lab ID: 92686947025** Collected: 09/13/23 10:20 Received: 09/14/23 14:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**268**	mg/L	6.0	3.0	6		09/17/23 12:30	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 798973 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947008

METHOD BLANK: 4138223 Matrix: Water
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/12/23 17:28	
Iron	mg/L	ND	0.040	0.025	09/12/23 17:28	
Magnesium	mg/L	ND	0.050	0.012	09/12/23 17:28	
Potassium	mg/L	ND	0.50	0.15	09/12/23 17:28	
Sodium	mg/L	ND	1.0	0.58	09/12/23 17:28	

LABORATORY CONTROL SAMPLE: 4138224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138225 4138226

Parameter	Units	92686947005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	32.7	1	1	34.5	33.5	175	73	75-125	3	20	M1
Iron	mg/L	ND	1	1	1.1	1.0	105	102	75-125	3	20	
Magnesium	mg/L	7.3	1	1	8.5	8.2	120	89	75-125	4	20	
Potassium	mg/L	4.7	1	1	5.9	5.6	116	93	75-125	4	20	
Sodium	mg/L	17.5	1	1	19.0	18.4	147	91	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799401
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

METHOD BLANK: 4140560 Matrix: Water
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/17/23 11:47	
Iron	mg/L	ND	0.040	0.025	09/17/23 11:47	
Magnesium	mg/L	ND	0.050	0.012	09/17/23 11:47	
Potassium	mg/L	ND	0.50	0.15	09/17/23 11:47	
Sodium	mg/L	ND	1.0	0.58	09/17/23 11:47	

LABORATORY CONTROL SAMPLE: 4140561

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	105	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Potassium	mg/L	1	0.94	94	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140562 4140563

Parameter	Units	92686947010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.8	1	1	32.4	31.7	155	93	75-125	2	20	M1
Iron	mg/L	26.4	1	1	27.9	27.5	149	104	75-125	2	20	M1
Magnesium	mg/L	18.1	1	1	19.3	19.0	125	92	75-125	2	20	
Potassium	mg/L	8.5	1	1	9.6	9.5	115	98	75-125	2	20	
Sodium	mg/L	8.0	1	1	9.1	8.9	106	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 802397
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947007

METHOD BLANK: 4156377 Matrix: Water
Associated Lab Samples: 92686947007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/03/23 14:14	
Iron	mg/L	ND	0.040	0.025	10/03/23 14:14	
Magnesium	mg/L	ND	0.050	0.012	10/03/23 14:14	
Potassium	mg/L	ND	0.50	0.15	10/05/23 21:00	
Sodium	mg/L	ND	1.0	0.58	10/05/23 21:00	

LABORATORY CONTROL SAMPLE: 4156378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.0	105	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4156379 4156380

Parameter	Units	92689253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	17600 ug/L	1	1	19.5	19.8	186	219	75-125	2	20	M1
Iron	mg/L	13100 ug/L	1	1	17.0	16.7	383	361	75-125	1	20	M1
Magnesium	mg/L	2410 ug/L	1	1	3.9	3.9	146	147	75-125	0	20	M1
Potassium	mg/L	1860 ug/L	1	1	3.2	3.1	131	121	75-125	3	20	M1
Sodium	mg/L	1210 ug/L	1	1	2.3	2.3	111	107	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 802701
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947018, 92686947019, 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4157628 Matrix: Water
Associated Lab Samples: 92686947018, 92686947019, 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/02/23 21:19	
Iron	mg/L	ND	0.040	0.025	10/02/23 21:19	
Magnesium	mg/L	ND	0.050	0.012	10/02/23 21:19	
Potassium	mg/L	ND	0.50	0.15	10/02/23 21:19	
Sodium	mg/L	ND	1.0	0.58	10/02/23 21:19	

LABORATORY CONTROL SAMPLE: 4157629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4158650 4158651

Parameter	Units	92686679021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	102	1	1	101	104	-23	236	75-125	3	20	M1
Iron	mg/L	0.29	1	1	1.2	1.3	95	98	75-125	3	20	
Magnesium	mg/L	34.7	1	1	35.3	36.0	51	129	75-125	2	20	M1
Potassium	mg/L	10.9	1	1	11.7	12.2	88	131	75-125	4	20	M1
Sodium	mg/L	26.4	1	1	27.2	27.5	79	115	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 798931
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008

METHOD BLANK: 4137886 Matrix: Water
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0020J	0.0030	0.0012	09/15/23 17:30	
Arsenic	mg/L	ND	0.0050	0.0037	09/15/23 17:30	
Barium	mg/L	ND	0.0050	0.00067	09/15/23 17:30	
Beryllium	mg/L	ND	0.00050	0.000054	09/15/23 17:30	
Boron	mg/L	ND	0.040	0.0086	09/15/23 17:30	
Cadmium	mg/L	ND	0.00050	0.00011	09/15/23 17:30	
Chromium	mg/L	0.0013J	0.0050	0.0011	09/15/23 17:30	
Cobalt	mg/L	ND	0.0050	0.00039	09/15/23 17:30	
Lead	mg/L	ND	0.0010	0.00012	09/15/23 17:30	
Lithium	mg/L	ND	0.030	0.00073	09/15/23 17:30	
Molybdenum	mg/L	ND	0.010	0.00074	09/15/23 17:30	
Selenium	mg/L	ND	0.0050	0.0014	09/15/23 17:30	
Thallium	mg/L	ND	0.0010	0.00018	09/15/23 17:30	

LABORATORY CONTROL SAMPLE: 4137887

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	0.097	97	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.091	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137888 4137889

Parameter	Units	92686947002 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	0.11	0.10	105	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137888 4137889

Parameter	Units	92686947002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Barium	mg/L	0.034	0.1	0.1	0.14	0.15	105	112	75-125	5	20	
Beryllium	mg/L	0.00020J	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Boron	mg/L	1.7	1	1	2.6	2.6	93	96	75-125	1	20	
Cadmium	mg/L	0.00014J	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20	
Cobalt	mg/L	0.0011J	0.1	0.1	0.099	0.094	98	93	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	0	20	
Lithium	mg/L	0.0017J	0.1	0.1	0.094	0.096	93	94	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.098	98	98	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.089	0.089	89	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799426
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

METHOD BLANK: 4140688 Matrix: Water
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0020J	0.0030	0.0012	09/20/23 13:49	
Arsenic	mg/L	ND	0.0050	0.0037	09/20/23 13:49	
Barium	mg/L	ND	0.0050	0.00067	09/20/23 13:49	
Beryllium	mg/L	ND	0.00050	0.000054	09/20/23 13:49	
Boron	mg/L	ND	0.040	0.0086	09/20/23 13:49	
Cadmium	mg/L	ND	0.00050	0.00011	09/20/23 13:49	
Chromium	mg/L	ND	0.0050	0.0011	09/20/23 13:49	
Cobalt	mg/L	ND	0.0050	0.00039	09/20/23 13:49	
Lead	mg/L	ND	0.0010	0.00012	09/20/23 13:49	
Lithium	mg/L	ND	0.030	0.00073	09/20/23 13:49	
Molybdenum	mg/L	ND	0.010	0.00074	09/20/23 13:49	
Selenium	mg/L	ND	0.0050	0.0014	09/20/23 13:49	
Thallium	mg/L	ND	0.0010	0.00018	09/20/23 13:49	

LABORATORY CONTROL SAMPLE: 4140689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140690 4140691

Parameter	Units	92686947009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0018J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140690 4140691

Parameter	Units	92686947009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.029	0.1	0.1	0.11	0.11	83	84	75-125	0	20	
Barium	mg/L	0.014	0.1	0.1	0.12	0.11	101	100	75-125	2	20	
Beryllium	mg/L	0.0067	0.1	0.1	0.074	0.073	67	67	75-125	0	20	M1
Boron	mg/L	2.5	1	1	3.0	3.1	55	59	75-125	1	20	M1
Cadmium	mg/L	0.0038	0.1	0.1	0.098	0.098	94	95	75-125	1	20	
Chromium	mg/L	0.0026J	0.1	0.1	0.081	0.081	79	78	75-125	0	20	
Cobalt	mg/L	1.4	0.1	0.1	1.5	1.5	51	71	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096J	0.093J	94	91	75-125		20	
Lithium	mg/L	0.011J	0.1	0.1	0.088	0.088	77	77	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	1	20	
Selenium	mg/L	0.14	0.1	0.1	0.22	0.22	80	82	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799667
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947018, 92686947019

METHOD BLANK: 4141846 Matrix: Water
Associated Lab Samples: 92686947018, 92686947019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/25/23 16:20	
Arsenic	mg/L	ND	0.0050	0.0037	09/25/23 16:20	
Barium	mg/L	ND	0.0050	0.00067	09/25/23 16:20	
Beryllium	mg/L	ND	0.00050	0.000054	09/25/23 16:20	
Boron	mg/L	ND	0.040	0.0086	09/25/23 16:20	
Cadmium	mg/L	ND	0.00050	0.00011	09/25/23 16:20	
Chromium	mg/L	ND	0.0050	0.0011	09/25/23 16:20	
Cobalt	mg/L	ND	0.0050	0.00039	09/25/23 16:20	
Lead	mg/L	ND	0.0010	0.00012	09/25/23 16:20	
Lithium	mg/L	ND	0.030	0.00073	09/25/23 16:20	
Molybdenum	mg/L	ND	0.010	0.00074	09/25/23 16:20	
Selenium	mg/L	ND	0.0050	0.0014	09/25/23 16:20	
Thallium	mg/L	ND	0.0010	0.00018	09/25/23 16:20	

LABORATORY CONTROL SAMPLE: 4141847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141848 4141849

Parameter	Units	92686679019 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	0.11	0.11	109	107	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	99	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141848 4141849

Parameter	Units	92686679019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.12	0.1	0.1	0.22	0.21	101	92	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.086	0.085	86	85	75-125	0	20	
Boron	mg/L	0.26	1	1	1.1	1.1	84	82	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	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	0.10	0.10	103	101	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.089	0.090	89	89	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800427
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4145841 Matrix: Water
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	09/26/23 17:54	
Arsenic	mg/L	ND	0.0050	0.0037	09/26/23 17:54	
Barium	mg/L	ND	0.0050	0.00067	09/26/23 17:54	
Beryllium	mg/L	ND	0.00050	0.000054	09/26/23 17:54	
Boron	mg/L	ND	0.040	0.0086	09/26/23 17:54	
Cadmium	mg/L	ND	0.00050	0.00011	09/26/23 17:54	
Chromium	mg/L	ND	0.0050	0.0011	09/26/23 17:54	
Cobalt	mg/L	ND	0.0050	0.00039	09/26/23 17:54	
Lead	mg/L	ND	0.0010	0.00012	09/26/23 17:54	
Lithium	mg/L	ND	0.030	0.00073	09/26/23 17:54	
Molybdenum	mg/L	ND	0.010	0.00074	09/26/23 17:54	
Selenium	mg/L	ND	0.0050	0.0014	09/26/23 17:54	
Thallium	mg/L	ND	0.0010	0.00018	09/26/23 17:54	

LABORATORY CONTROL SAMPLE: 4145842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	112	80-120	
Cadmium	mg/L	0.1	0.11	108	80-120	
Chromium	mg/L	0.1	0.11	108	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.11	108	80-120	
Lithium	mg/L	0.1	0.11	109	80-120	
Molybdenum	mg/L	0.1	0.11	109	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145843 4145844

Parameter	Units	92686679024 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	0.12	0.12	122	118	75-125	4	20	
Arsenic	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 McD AP-234 Well Network
Pace Project No.: 92686947

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145843 4145844

Parameter	Units	92686679024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.020	0.1	0.1	0.14	0.13	118	112	75-125	4	20	
Beryllium	mg/L	0.0016	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Boron	mg/L	0.26	1	1	1.3	1.3	103	101	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	108	109	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	0.18	0.1	0.1	0.28	0.27	107	94	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Lithium	mg/L	0.040	0.1	0.1	0.14	0.14	104	99	75-125	3	20	
Molybdenum	mg/L	0.00092J	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.11	0.11	113	112	75-125	1	20	
Thallium	mg/L	0.00028J	0.1	0.1	0.10	0.10	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 801878 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4153671 Matrix: Water
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/26/23 12:36	

LABORATORY CONTROL SAMPLE: 4153672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4153673 4153674

Parameter	Units	92686679024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 803462
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008, 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017, 92686947018, 92686947019

METHOD BLANK: 4161108
Matrix: Water
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008, 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017, 92686947018, 92686947019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/02/23 17:49	

LABORATORY CONTROL SAMPLE: 4161109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4161110 4161111

Parameter	Units	92686947001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0023	98	92	75-125	6	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799142
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92686947001

METHOD BLANK: 4138899 Matrix: Water
Associated Lab Samples: 92686947001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/12/23 11:42	

LABORATORY CONTROL SAMPLE: 4138900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 4138901

Parameter	Units	92686677006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	253	259	2	10	

SAMPLE DUPLICATE: 4138902

Parameter	Units	92687108002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	101	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799378 | 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: 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008, 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

METHOD BLANK: 4140337 Matrix: Water

Associated Lab Samples: 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008, 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/13/23 11:44	

LABORATORY CONTROL SAMPLE: 4140338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 4140339

Parameter	Units	92686947002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	451	472	5	10	

SAMPLE DUPLICATE: 4140340

Parameter	Units	92686947009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	960	846	13	10	D6

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800282
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92686947018, 92686947019

METHOD BLANK: 4144980 Matrix: Water
Associated Lab Samples: 92686947018, 92686947019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/18/23 12:43	

LABORATORY CONTROL SAMPLE: 4144981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	80-120	

SAMPLE DUPLICATE: 4144982

Parameter	Units	92687223010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4144983

Parameter	Units	92686679022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	560	567	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800804 | 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: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4147886 Matrix: Water
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/20/23 20:07	

LABORATORY CONTROL SAMPLE: 4147887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	455	114	80-120	

SAMPLE DUPLICATE: 4147888

Parameter	Units	92688018001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	290000 ug/L	288	1	10	

SAMPLE DUPLICATE: 4147889

Parameter	Units	92688018017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	490000 ug/L	466	5	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799657
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004

METHOD BLANK: 4141803 Matrix: Water
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/23 11:08	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 11:08	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 11:08	

LABORATORY CONTROL SAMPLE: 4141804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4141805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141806 4141807

Parameter	Units	92686947003 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	17.5	50	50	70.9	70.2	107	105	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141808 4141809

Parameter	Units	92686947004 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	55.2	55.3	104	104	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799684
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947005, 92686947006, 92686947007, 92686947008, 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

METHOD BLANK: 4141941 Matrix: Water
Associated Lab Samples: 92686947005, 92686947006, 92686947007, 92686947008, 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/14/23 14:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 14:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/14/23 14:09	

LABORATORY CONTROL SAMPLE: 4141942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

LABORATORY CONTROL SAMPLE: 4141943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141944 4141945

Parameter	Units	92686679018 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	51.4	51.4	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141946 4141947

Parameter	Units	92687508001 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	153	50	50	207	216	107	125	80-120	4	25	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800267
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947018, 92686947019

METHOD BLANK: 4144892 Matrix: Water
Associated Lab Samples: 92686947018, 92686947019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/18/23 13:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/18/23 13:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/18/23 13:51	

LABORATORY CONTROL SAMPLE: 4144893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE: 4144894

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: 4144895 4144896

Parameter	Units	92687758002 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	38.2	50	50	87.5	87.8	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4144897 4144898

Parameter	Units	92687758004 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	92.6	50	50	143	144	102	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800448 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4145920 Matrix: Water
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/19/23 14:10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/23 14:10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/19/23 14:10	

LABORATORY CONTROL SAMPLE: 4145921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

LABORATORY CONTROL SAMPLE: 4145922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145923 4145924

Parameter	Units	92686947024 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	6.7	50	50	60.8	61.0	108	109	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4145925 4145926

Parameter	Units	92686947025 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	42.0	41.6	84	83	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799297
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008

METHOD BLANK: 4140104 Matrix: Water
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/13/23 02:36	

LABORATORY CONTROL SAMPLE: 4140105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140106 4140107

Parameter	Units	92686677011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.53	100	107	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4140108 4140109

Parameter	Units	92686947008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	104	102	80-120	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799849
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

METHOD BLANK: 4143142 Matrix: Water
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016, 92686947017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/15/23 04:50	

LABORATORY CONTROL SAMPLE: 4143143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143146 4143147

Parameter	Units	92686679015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.54	105	107	80-120	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143167 4143168

Parameter	Units	92686947012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.49	96	96	80-120	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799850
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947018, 92686947019

METHOD BLANK: 4143148 Matrix: Water
Associated Lab Samples: 92686947018, 92686947019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/15/23 05:02	

LABORATORY CONTROL SAMPLE: 4143149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143150 4143151

Parameter	Units	92687636005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.50	97	98	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143169 4143170

Parameter	Units	92687839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.52	101	100	80-120	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800665
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4147249 Matrix: Water
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/20/23 02:40	

LABORATORY CONTROL SAMPLE: 4147250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4147268 4147269

Parameter	Units	92688066005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	104	107	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4147270 4147271

Parameter	Units	92686947023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.51	103	101	80-120	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799073
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008

METHOD BLANK: 4138716 Matrix: Water
Associated Lab Samples: 92686947001, 92686947002, 92686947003, 92686947004, 92686947005, 92686947006, 92686947007, 92686947008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/13/23 01:09	
Fluoride	mg/L	ND	0.10	0.050	09/13/23 01:09	
Sulfate	mg/L	ND	1.0	0.50	09/13/23 01:09	

LABORATORY CONTROL SAMPLE: 4138717

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	2.7	108	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138718 4138719

Parameter	Units	92686947001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5	50	50	56.1	56.9	105	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	109	90-110	2	10	
Sulfate	mg/L	43.1	50	50	94.0	95.0	102	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4138720 4138721

Parameter	Units	92686945002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	195	50	50	232	231	73	72	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	D3,M1
Sulfate	mg/L	539	50	50	598	597	117	115	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799598
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016

METHOD BLANK: 4141622 Matrix: Water
Associated Lab Samples: 92686947009, 92686947010, 92686947011, 92686947012, 92686947013, 92686947014, 92686947015, 92686947016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/23 14:30	
Fluoride	mg/L	ND	0.10	0.050	09/14/23 14:30	
Sulfate	mg/L	ND	1.0	0.50	09/14/23 14:30	

LABORATORY CONTROL SAMPLE: 4141623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141624 4141625

Parameter	Units	92687691002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L		50	50	83.1	78.8	102	94	90-110	5	10	
Fluoride	mg/L		2.5	2.5	3.1	3.0	122	118	90-110	3	10	M1
Sulfate	mg/L	78.7	50	50	122	122	87	87	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141626 4141627

Parameter	Units	92687188001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	67.0	50	50	112	113	90	91	90-110	1	10	
Fluoride	mg/L	1.9	2.5	2.5	4.2	4.2	93	94	90-110	1	10	
Sulfate	mg/L	47.2	50	50	99.4	93.6	104	93	90-110	6	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 799599
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947017, 92686947018, 92686947019

METHOD BLANK: 4141628 Matrix: Water
Associated Lab Samples: 92686947017, 92686947018, 92686947019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/14/23 22:23	
Fluoride	mg/L	ND	0.10	0.050	09/14/23 22:23	
Sulfate	mg/L	ND	1.0	0.50	09/14/23 22:23	

LABORATORY CONTROL SAMPLE: 4141629

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	103	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141630 4141631

Parameter	Units	92686947017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.8	49.9	106	100	90-110	6	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.6	107	104	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.9	49.9	106	100	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4141632 4141633

Parameter	Units	92686679019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.0	50	50	57.7	54.0	107	100	90-110	7	10	
Fluoride	mg/L	0.069J	2.5	2.5	2.7	2.5	104	97	90-110	7	10	
Sulfate	mg/L	ND	50	50	54.2	50.4	108	100	90-110	7	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

QC Batch: 800156
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

METHOD BLANK: 4144622 Matrix: Water
Associated Lab Samples: 92686947020, 92686947021, 92686947022, 92686947023, 92686947024, 92686947025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/16/23 23:58	
Fluoride	mg/L	ND	0.10	0.050	09/16/23 23:58	
Sulfate	mg/L	ND	1.0	0.50	09/16/23 23:58	

LABORATORY CONTROL SAMPLE: 4144623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	48.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4144624 4144625

Parameter	Units	92686947020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.9	50	50	51.2	51.6	99	99	90-110	1	10	
Fluoride	mg/L	0.083J	2.5	2.5	2.5	2.5	96	97	90-110	1	10	
Sulfate	mg/L	95.5	50	50	135	137	79	82	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4144626 4144627

Parameter	Units	92688293005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	53.6	53.8	101	101	90-110	0	10	
Fluoride	mg/L	0.26	2.5	2.5	2.7	2.7	97	97	90-110	0	10	
Sulfate	mg/L	13.3	50	50	64.0	64.1	101	102	90-110	0	10	

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QUALIFIERS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686947001	**MCD-DGWC-14**	EPA 3010A	798973	EPA 6010D	799143
92686947002	**MCD-DGWC-11**	EPA 3010A	798973	EPA 6010D	799143
92686947003	**MCD-DGWC-15**	EPA 3010A	798973	EPA 6010D	799143
92686947004	**MCD-DGWC-19**	EPA 3010A	798973	EPA 6010D	799143
92686947005	**MCD-DGWC-13**	EPA 3010A	798973	EPA 6010D	799143
92686947006	**MCD-AP234-FD-2**	EPA 3010A	798973	EPA 6010D	799143
92686947007	**MCD-AP234-FB-2**	EPA 3010A	802397	EPA 6010D	802501
92686947008	**MCD-AP234-EB-2**	EPA 3010A	798973	EPA 6010D	799143
92686947009	**MCD-DGWC-20**	EPA 3010A	799401	EPA 6010D	799461
92686947010	**MCD-DGWC-12**	EPA 3010A	799401	EPA 6010D	799461
92686947011	**MCD-DGWC-21**	EPA 3010A	799401	EPA 6010D	799461
92686947012	**MCD-DGWC-22**	EPA 3010A	799401	EPA 6010D	799461
92686947013	**MCD-DGWC-10**	EPA 3010A	799401	EPA 6010D	799461
92686947014	**MCD-DGWC-23**	EPA 3010A	799401	EPA 6010D	799461
92686947015	**MCD-AP234-FD-3**	EPA 3010A	799401	EPA 6010D	799461
92686947016	**MCD-AP234-FB-3**	EPA 3010A	799401	EPA 6010D	799461
92686947017	**MCD-AP234-EB-3**	EPA 3010A	799401	EPA 6010D	799461
92686947018	**MCD-DGWC-47**	EPA 3010A	802701	EPA 6010D	802875
92686947019	**MCD-DGWC-8**	EPA 3010A	802701	EPA 6010D	802875
92686947020	**MCD-DGWC-2**	EPA 3010A	802701	EPA 6010D	802875
92686947021	**MCD-DGWC-4**	EPA 3010A	802701	EPA 6010D	802875
92686947022	**MCD-DGWC-5**	EPA 3010A	802701	EPA 6010D	802875
92686947023	**MCD-DGWC-17**	EPA 3010A	802701	EPA 6010D	802875
92686947024	**MCD-DGWC-42**	EPA 3010A	802701	EPA 6010D	802875
92686947025	**MCD-DGWC-48**	EPA 3010A	802701	EPA 6010D	802875
92686947001	**MCD-DGWC-14**	EPA 3005A	798931	EPA 6020B	799166
92686947002	**MCD-DGWC-11**	EPA 3005A	798931	EPA 6020B	799166
92686947003	**MCD-DGWC-15**	EPA 3005A	798931	EPA 6020B	799166
92686947004	**MCD-DGWC-19**	EPA 3005A	798931	EPA 6020B	799166
92686947005	**MCD-DGWC-13**	EPA 3005A	798931	EPA 6020B	799166
92686947006	**MCD-AP234-FD-2**	EPA 3005A	798931	EPA 6020B	799166
92686947007	**MCD-AP234-FB-2**	EPA 3005A	798931	EPA 6020B	799166
92686947008	**MCD-AP234-EB-2**	EPA 3005A	798931	EPA 6020B	799166
92686947009	**MCD-DGWC-20**	EPA 3005A	799426	EPA 6020B	799535
92686947010	**MCD-DGWC-12**	EPA 3005A	799426	EPA 6020B	799535
92686947011	**MCD-DGWC-21**	EPA 3005A	799426	EPA 6020B	799535
92686947012	**MCD-DGWC-22**	EPA 3005A	799426	EPA 6020B	799535
92686947013	**MCD-DGWC-10**	EPA 3005A	799426	EPA 6020B	799535
92686947014	**MCD-DGWC-23**	EPA 3005A	799426	EPA 6020B	799535
92686947015	**MCD-AP234-FD-3**	EPA 3005A	799426	EPA 6020B	799535
92686947016	**MCD-AP234-FB-3**	EPA 3005A	799426	EPA 6020B	799535
92686947017	**MCD-AP234-EB-3**	EPA 3005A	799426	EPA 6020B	799535
92686947018	**MCD-DGWC-47**	EPA 3005A	799667	EPA 6020B	799762
92686947019	**MCD-DGWC-8**	EPA 3005A	799667	EPA 6020B	799762
92686947020	**MCD-DGWC-2**	EPA 3005A	800427	EPA 6020B	800580

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686947021	**MCD-DGWC-4**	EPA 3005A	800427	EPA 6020B	800580
92686947022	**MCD-DGWC-5**	EPA 3005A	800427	EPA 6020B	800580
92686947023	**MCD-DGWC-17**	EPA 3005A	800427	EPA 6020B	800580
92686947024	**MCD-DGWC-42**	EPA 3005A	800427	EPA 6020B	800580
92686947025	**MCD-DGWC-48**	EPA 3005A	800427	EPA 6020B	800580
92686947001	**MCD-DGWC-14**	EPA 7470A	803462	EPA 7470A	803575
92686947002	**MCD-DGWC-11**	EPA 7470A	803462	EPA 7470A	803575
92686947003	**MCD-DGWC-15**	EPA 7470A	803462	EPA 7470A	803575
92686947004	**MCD-DGWC-19**	EPA 7470A	803462	EPA 7470A	803575
92686947005	**MCD-DGWC-13**	EPA 7470A	803462	EPA 7470A	803575
92686947006	**MCD-AP234-FD-2**	EPA 7470A	803462	EPA 7470A	803575
92686947007	**MCD-AP234-FB-2**	EPA 7470A	803462	EPA 7470A	803575
92686947008	**MCD-AP234-EB-2**	EPA 7470A	803462	EPA 7470A	803575
92686947009	**MCD-DGWC-20**	EPA 7470A	803462	EPA 7470A	803575
92686947010	**MCD-DGWC-12**	EPA 7470A	803462	EPA 7470A	803575
92686947011	**MCD-DGWC-21**	EPA 7470A	803462	EPA 7470A	803575
92686947012	**MCD-DGWC-22**	EPA 7470A	803462	EPA 7470A	803575
92686947013	**MCD-DGWC-10**	EPA 7470A	803462	EPA 7470A	803575
92686947014	**MCD-DGWC-23**	EPA 7470A	803462	EPA 7470A	803575
92686947015	**MCD-AP234-FD-3**	EPA 7470A	803462	EPA 7470A	803575
92686947016	**MCD-AP234-FB-3**	EPA 7470A	803462	EPA 7470A	803575
92686947017	**MCD-AP234-EB-3**	EPA 7470A	803462	EPA 7470A	803575
92686947018	**MCD-DGWC-47**	EPA 7470A	803462	EPA 7470A	803575
92686947019	**MCD-DGWC-8**	EPA 7470A	803462	EPA 7470A	803575
92686947020	**MCD-DGWC-2**	EPA 7470A	801878	EPA 7470A	802024
92686947021	**MCD-DGWC-4**	EPA 7470A	801878	EPA 7470A	802024
92686947022	**MCD-DGWC-5**	EPA 7470A	801878	EPA 7470A	802024
92686947023	**MCD-DGWC-17**	EPA 7470A	801878	EPA 7470A	802024
92686947024	**MCD-DGWC-42**	EPA 7470A	801878	EPA 7470A	802024
92686947025	**MCD-DGWC-48**	EPA 7470A	801878	EPA 7470A	802024
92686947001	**MCD-DGWC-14**	SM 2540C-2015	799142		
92686947002	**MCD-DGWC-11**	SM 2540C-2015	799378		
92686947003	**MCD-DGWC-15**	SM 2540C-2015	799378		
92686947004	**MCD-DGWC-19**	SM 2540C-2015	799378		
92686947005	**MCD-DGWC-13**	SM 2540C-2015	799378		
92686947006	**MCD-AP234-FD-2**	SM 2540C-2015	799378		
92686947007	**MCD-AP234-FB-2**	SM 2540C-2015	799378		
92686947008	**MCD-AP234-EB-2**	SM 2540C-2015	799378		
92686947009	**MCD-DGWC-20**	SM 2540C-2015	799378		
92686947010	**MCD-DGWC-12**	SM 2540C-2015	799378		
92686947011	**MCD-DGWC-21**	SM 2540C-2015	799378		
92686947012	**MCD-DGWC-22**	SM 2540C-2015	799378		
92686947013	**MCD-DGWC-10**	SM 2540C-2015	799378		
92686947014	**MCD-DGWC-23**	SM 2540C-2015	799378		
92686947015	**MCD-AP234-FD-3**	SM 2540C-2015	799378		
92686947016	**MCD-AP234-FB-3**	SM 2540C-2015	799378		
92686947017	**MCD-AP234-EB-3**	SM 2540C-2015	799378		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686947018	**MCD-DGWC-47**	SM 2540C-2015	800282		
92686947019	**MCD-DGWC-8**	SM 2540C-2015	800282		
92686947020	**MCD-DGWC-2**	SM 2540C-2015	800804		
92686947021	**MCD-DGWC-4**	SM 2540C-2015	800804		
92686947022	**MCD-DGWC-5**	SM 2540C-2015	800804		
92686947023	**MCD-DGWC-17**	SM 2540C-2015	800804		
92686947024	**MCD-DGWC-42**	SM 2540C-2015	800804		
92686947025	**MCD-DGWC-48**	SM 2540C-2015	800804		
92686947001	**MCD-DGWC-14**	SM 2320B-2011	799657		
92686947002	**MCD-DGWC-11**	SM 2320B-2011	799657		
92686947003	**MCD-DGWC-15**	SM 2320B-2011	799657		
92686947004	**MCD-DGWC-19**	SM 2320B-2011	799657		
92686947005	**MCD-DGWC-13**	SM 2320B-2011	799684		
92686947006	**MCD-AP234-FD-2**	SM 2320B-2011	799684		
92686947007	**MCD-AP234-FB-2**	SM 2320B-2011	799684		
92686947008	**MCD-AP234-EB-2**	SM 2320B-2011	799684		
92686947009	**MCD-DGWC-20**	SM 2320B-2011	799684		
92686947010	**MCD-DGWC-12**	SM 2320B-2011	799684		
92686947011	**MCD-DGWC-21**	SM 2320B-2011	799684		
92686947012	**MCD-DGWC-22**	SM 2320B-2011	799684		
92686947013	**MCD-DGWC-10**	SM 2320B-2011	799684		
92686947014	**MCD-DGWC-23**	SM 2320B-2011	799684		
92686947015	**MCD-AP234-FD-3**	SM 2320B-2011	799684		
92686947016	**MCD-AP234-FB-3**	SM 2320B-2011	799684		
92686947017	**MCD-AP234-EB-3**	SM 2320B-2011	799684		
92686947018	**MCD-DGWC-47**	SM 2320B-2011	800267		
92686947019	**MCD-DGWC-8**	SM 2320B-2011	800267		
92686947020	**MCD-DGWC-2**	SM 2320B-2011	800448		
92686947021	**MCD-DGWC-4**	SM 2320B-2011	800448		
92686947022	**MCD-DGWC-5**	SM 2320B-2011	800448		
92686947023	**MCD-DGWC-17**	SM 2320B-2011	800448		
92686947024	**MCD-DGWC-42**	SM 2320B-2011	800448		
92686947025	**MCD-DGWC-48**	SM 2320B-2011	800448		
92686947001	**MCD-DGWC-14**	SM 4500-S2D-2011	799297		
92686947002	**MCD-DGWC-11**	SM 4500-S2D-2011	799297		
92686947003	**MCD-DGWC-15**	SM 4500-S2D-2011	799297		
92686947004	**MCD-DGWC-19**	SM 4500-S2D-2011	799297		
92686947005	**MCD-DGWC-13**	SM 4500-S2D-2011	799297		
92686947006	**MCD-AP234-FD-2**	SM 4500-S2D-2011	799297		
92686947007	**MCD-AP234-FB-2**	SM 4500-S2D-2011	799297		
92686947008	**MCD-AP234-EB-2**	SM 4500-S2D-2011	799297		
92686947009	**MCD-DGWC-20**	SM 4500-S2D-2011	799849		
92686947010	**MCD-DGWC-12**	SM 4500-S2D-2011	799849		
92686947011	**MCD-DGWC-21**	SM 4500-S2D-2011	799849		
92686947012	**MCD-DGWC-22**	SM 4500-S2D-2011	799849		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92686947

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686947013	**MCD-DGWC-10**	SM 4500-S2D-2011	799849		
92686947014	**MCD-DGWC-23**	SM 4500-S2D-2011	799849		
92686947015	**MCD-AP234-FD-3**	SM 4500-S2D-2011	799849		
92686947016	**MCD-AP234-FB-3**	SM 4500-S2D-2011	799849		
92686947017	**MCD-AP234-EB-3**	SM 4500-S2D-2011	799849		
92686947018	**MCD-DGWC-47**	SM 4500-S2D-2011	799850		
92686947019	**MCD-DGWC-8**	SM 4500-S2D-2011	799850		
92686947020	**MCD-DGWC-2**	SM 4500-S2D-2011	800665		
92686947021	**MCD-DGWC-4**	SM 4500-S2D-2011	800665		
92686947022	**MCD-DGWC-5**	SM 4500-S2D-2011	800665		
92686947023	**MCD-DGWC-17**	SM 4500-S2D-2011	800665		
92686947024	**MCD-DGWC-42**	SM 4500-S2D-2011	800665		
92686947025	**MCD-DGWC-48**	SM 4500-S2D-2011	800665		
92686947001	**MCD-DGWC-14**	EPA 300.0 Rev 2.1 1993	799073		
92686947002	**MCD-DGWC-11**	EPA 300.0 Rev 2.1 1993	799073		
92686947003	**MCD-DGWC-15**	EPA 300.0 Rev 2.1 1993	799073		
92686947004	**MCD-DGWC-19**	EPA 300.0 Rev 2.1 1993	799073		
92686947005	**MCD-DGWC-13**	EPA 300.0 Rev 2.1 1993	799073		
92686947006	**MCD-AP234-FD-2**	EPA 300.0 Rev 2.1 1993	799073		
92686947007	**MCD-AP234-FB-2**	EPA 300.0 Rev 2.1 1993	799073		
92686947008	**MCD-AP234-EB-2**	EPA 300.0 Rev 2.1 1993	799073		
92686947009	**MCD-DGWC-20**	EPA 300.0 Rev 2.1 1993	799598		
92686947010	**MCD-DGWC-12**	EPA 300.0 Rev 2.1 1993	799598		
92686947011	**MCD-DGWC-21**	EPA 300.0 Rev 2.1 1993	799598		
92686947012	**MCD-DGWC-22**	EPA 300.0 Rev 2.1 1993	799598		
92686947013	**MCD-DGWC-10**	EPA 300.0 Rev 2.1 1993	799598		
92686947014	**MCD-DGWC-23**	EPA 300.0 Rev 2.1 1993	799598		
92686947015	**MCD-AP234-FD-3**	EPA 300.0 Rev 2.1 1993	799598		
92686947016	**MCD-AP234-FB-3**	EPA 300.0 Rev 2.1 1993	799598		
92686947017	**MCD-AP234-EB-3**	EPA 300.0 Rev 2.1 1993	799599		
92686947018	**MCD-DGWC-47**	EPA 300.0 Rev 2.1 1993	799599		
92686947019	**MCD-DGWC-8**	EPA 300.0 Rev 2.1 1993	799599		
92686947020	**MCD-DGWC-2**	EPA 300.0 Rev 2.1 1993	800156		
92686947021	**MCD-DGWC-4**	EPA 300.0 Rev 2.1 1993	800156		
92686947022	**MCD-DGWC-5**	EPA 300.0 Rev 2.1 1993	800156		
92686947023	**MCD-DGWC-17**	EPA 300.0 Rev 2.1 1993	800156		
92686947024	**MCD-DGWC-42**	EPA 300.0 Rev 2.1 1993	800156		
92686947025	**MCD-DGWC-48**	EPA 300.0 Rev 2.1 1993	800156		

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Pace

DOC_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# : 92686947**

92686947

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

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/8/23

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: 4.1 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.1

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

Qualtrax ID: 69614

*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#: 92686947**

PM: BV Due Date: 09/25/23

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)	DG9H-40 mL VOA HCl (N/A)	DG9M-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)	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)
1		2	1			1	1																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7		2	1			1	1																		2				
8		3	1			1	1																		3				
9		2	1			1	1																		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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax:	Project Name: Plant McD AP-234 Well Network	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686947
																	N	N	N	N	N	N		
1	MCD-DGWC-14	WG	G	9/8/23	8:57		7	3		3		1					X	X	X	X	X	X		001
2	MCD-DGWC-11	WG	G	9/8/23	9:25		7	3		3		1					X	X	X	X	X	X		002
3	MCD-DGWC-15	WG	G	9/8/23	10:25		7	3		3		1					X	X	X	X	X	X		003
4	MCD-DGWC-19	WG	G	9/8/23	11:44		7	3		3		1					X	X	X	X	X	X		004
6	MCD-DGWC-13	WG	G	9/8/2023	12:00		7	3		3		1					X	X	X	X	X	X		005
7	MCD-AP234-FD-2	WG	G	9/8/2023	--		7	3		3		1					X	X	X	X	X	X		006
8	MCD-AP234-FB-2	WG	G	9/8/23	12:20		7	3		3		1					X	X	X	X	X	X		007
9	MCD-AP234-EB-2	WG	G	9/8/23	12:30		7	3		3		1					X	X	X	X	X	X		008
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	Marie Mann WSP	09/08/23	1550	JCC	9-8-23	1550

DATE Signed:

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-234 Well Network	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686947
																	N	N	N	N	N	N		
1	MCD-DGWC-20	WG	G	9/11/23	9:22		7	3		3		1					X	X	X	X	X	X		009
2	MCD-DGWC-12	WG	G	9/11/23	10:10		9	3		5		1					X	X	X	X	X	X		010 Extra Rads
3	MCD-DGWC-21	WG	G	9/11/23	11:26		7	3		3		1					X	X	X	X	X	X		011
4	MCD-DGWC-22	WG	G	9/11/23	13:19		7	3		3		1					X	X	X	X	X	X		012
6	MCD-DGWC-10	WG	G	9/11/23	13:15		7	3		3		1					X	X	X	X	X	X		013
7	MCD-DGWC-23	WG	G	9/11/23	14:39		7	3		3		1					X	X	X	X	X	X		014
8	MCD-AP234-FD-3	WG	G	9/11/23	--		7	3		3		1					X	X	X	X	X	X		015
9	MCD-AP234-FB-3	WG	G	9/11/23	10:05		7	3		3		1					X	X	X	X	X	X		016
10	MCD-AP234-EB-3	WG	G	9/11/23	15:30		7	3		3		1					X	X	X	X	X	X		017
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/12/23	830	[signature] 834	9/12/23	
				[signature]	9/12/23	

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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ Other: ☐ USPS ☑ Client

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

Date/Initials Person Examining Contents: 4-12-23 AY

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 082

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 **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): 4.8

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

Pace

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 #

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)	BP2N	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																		2				
2		2	1			1	1																		4				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		8	1			1	1																		2				
7		2	1			1	1																		2				
8		2	1			1	1																		2				
9		2	1			1	1																		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 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#: 92686947

PM: BV Due Date: 09/25/23

CLIENT: 92-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: 9-13-23 MV

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: 2.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.9

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

Qualtrax ID: 60914

*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#: 92686947**

PM: BV Due Date: 09/25/23

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)	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)	BP1N	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																		2				
2		2	1			1	1																		4				
3																													
4																													
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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.

Page 1 Of 1

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: acsinvoices@southernco.com
Address: 2460 Maner Road Atlanta, GA 30339	Copy To: WSP	Company Name:
Email: launcoker@southernco.com		Address:
Phone: (470) 620-6178 Fax:	Purchase Order #:	Pace Quote:
Requested Due Date: 10 Day TAT	Project Name: Plant McD AP-234 Well Network	Pace Project Manager: Bonnie Vang
	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analyses Filtered (Y/N): App III/IV + Mg, Na, K, Fe	CL, F, SO4	Radium 9613/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686947
																	N	N	N	N	N	N		
1	MCD-DGWC-47	WG	G	9/12/23	11:26		7	3		3		1					X	X	X	X	X	X		016
2	MCD-DGWC-8	WG	G	9/12/23	11:12		9	3		6		1					X	X	X	X	X	X		019 Extra Rads
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/13/23	836	M. BATH	9-13-23	
					9-14-23	

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 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#: 92686947

PM: BV Due Date: 09/25/23

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-14-23 JH

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 093

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 5.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.4

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Quality ID: 6901.1

Pace INDUSTRIAL SERVICES

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#: 92686947**

PM: BV Due Date: 09/25/23

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)	BP2N	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax:	Project Name:	Plant McD AP-234 Well Network	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686947
								Preservatives									N	N	N	N	N	N		
1	MCD-DGWC-2	WG	G	9/13/23	10:48		7	3		3		1					X	X	X	X	X	X		020
2	MCD-DGWC-4	WG	G	9/13/23	14:54		7	3		3		1					X	X	X	X	X	X		021
3	MCD-DGWC-5	WG	G	9/13/23	10:38		7	3		3		1					X	X	X	X	X	X		022
4	MCD-DGWC-17	WG	G	9/13/23	12:20		7	3		3		1					X	X	X	X	X	X		023
6	MCD-DGWC-42	WG	G	9/13/23	14:47		7	3		3		1					X	X	X	X	X	X		024
7	MCD-DGWC-48	WG	G	9/13/23	10:20		7	3		3		1					X	X	X	X	X	X		025
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/14/23	1422	Charles Harris	9/14/23	1422

DATE Signed:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 10, 2023

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between September 08, 2023 and September 14, 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
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc_Atlanta

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92686980001	**MCD-DGWC-14**	Water	09/08/23 08:57	09/08/23 15:50
92686980002	**MCD-DGWC-11**	Water	09/08/23 09:25	09/08/23 15:50
92686980003	**MCD-DGWC-15**	Water	09/08/23 10:25	09/08/23 15:50
92686980004	**MCD-DGWC-19**	Water	09/08/23 11:44	09/08/23 15:50
92686980005	**MCD-DGWC-13**	Water	09/08/23 12:00	09/08/23 15:50
92686980006	**MCD-AP234-FD-2**	Water	09/08/23 00:00	09/08/23 15:50
92686980007	**MCD-AP234-FB-2**	Water	09/08/23 12:20	09/08/23 15:50
92686980008	**MCD-AP234-EB-2**	Water	09/08/23 12:30	09/08/23 15:50
92686980009	**MCD-DGWC-20**	Water	09/11/23 09:22	09/12/23 08:30
92686980010	**MCD-DGWC-12**	Water	09/11/23 10:10	09/12/23 08:30
92686980011	**MCD-DGWC-21**	Water	09/11/23 11:26	09/12/23 08:30
92686980012	**MCD-DGWC-22**	Water	09/11/23 13:19	09/12/23 08:30
92686980013	**MCD-DGWC-10**	Water	09/11/23 13:15	09/12/23 08:30
92686980014	**MCD-DGWC-23**	Water	09/11/23 14:39	09/12/23 08:30
92686980015	**MCD-AP234-FD-3**	Water	09/11/23 00:00	09/12/23 08:30
92686980016	**MCD-AP234-FB-3**	Water	09/11/23 10:05	09/12/23 08:30
92686980017	**MCD-AP234-EB-3**	Water	09/11/23 15:30	09/12/23 08:30
92686980018	**MCD-DGWC-47**	Water	09/12/23 11:28	09/13/23 08:36
92686980019	**MCD-DGWC-8**	Water	09/12/23 11:12	09/13/23 08:36
92686980020	**MCD-DGWC-2**	Water	09/13/23 10:48	09/14/23 14:22
92686980021	**MCD-DGWC-4**	Water	09/13/23 14:54	09/14/23 14:22
92686980022	**MCD-DGWC-5**	Water	09/13/23 10:38	09/14/23 14:22
92686980023	**MCD-DGWC-17**	Water	09/13/23 12:20	09/14/23 14:22
92686980024	**MCD-DGWC-42**	Water	09/13/23 14:47	09/14/23 14:22
92686980025	**MCD-DGWC-48**	Water	09/13/23 10:20	09/14/23 14:22

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92686980001	**MCD-DGWC-14**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980002	**MCD-DGWC-11**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980003	**MCD-DGWC-15**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980004	**MCD-DGWC-19**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980005	**MCD-DGWC-13**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980006	**MCD-AP234-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980007	**MCD-AP234-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980008	**MCD-AP234-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980009	**MCD-DGWC-20**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980010	**MCD-DGWC-12**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980011	**MCD-DGWC-21**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980012	**MCD-DGWC-22**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980013	**MCD-DGWC-10**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980014	**MCD-DGWC-23**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980015	**MCD-AP234-FD-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980016	**MCD-AP234-FB-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980017	**MCD-AP234-EB-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980018	**MCD-DGWC-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92686980019	**MCD-DGWC-8**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686980020	**MCD-DGWC-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686980021	**MCD-DGWC-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686980022	**MCD-DGWC-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686980023	**MCD-DGWC-17**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686980024	**MCD-DGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	ERT	1	PASI-PA
92686980025	**MCD-DGWC-48**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	ERT	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-14 **Lab ID: 92686980001** Collected: 09/08/23 08:57 Received: 09/08/23 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	**0.378 ± 0.172 (0.225) C:82% T:NA**	pCi/L	10/02/23 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.372U ± 0.314 (0.625) C:83% T:86%**	pCi/L	09/26/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.750U ± 0.486 (0.850)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-11 **Lab ID: 92686980002** Collected: 09/08/23 09:25 Received: 09/08/23 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	**0.149U ± 0.118 (0.209) C:88% T:NA**	pCi/L	10/02/23 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.05 ± 0.446 (0.712) C:77% T:80%**	pCi/L	09/26/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20 ± 0.564 (0.921)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-15 **Lab ID: 92686980003** Collected: 09/08/23 10:25 Received: 09/08/23 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	**0.197U ± 0.133 (0.223) C:84% T:NA**	pCi/L	10/02/23 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.476U ± 0.338 (0.642) C:74% T:81%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.673U ± 0.471 (0.865)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-19 **Lab ID: 92686980004** Collected: 09/08/23 11:44 Received: 09/08/23 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	**0.154U ± 0.114 (0.195) C:97% T:NA**	pCi/L	10/02/23 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.217U ± 0.284 (0.605) C:79% T:87%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.371U ± 0.398 (0.800)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-13 **Lab ID: 92686980005** Collected: 09/08/23 12:00 Received: 09/08/23 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	**0.272 ± 0.157 (0.240) C:81% T:NA**	pCi/L	10/02/23 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.499U ± 0.383 (0.750) C:77% T:80%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.771U ± 0.540 (0.990)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-AP234-FD-2 **Lab ID: 92686980006** Collected: 09/08/23 00:00 Received: 09/08/23 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	**0.199 ± 0.112 (0.163) C:115% T:NA**	pCi/L	10/02/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.418U ± 0.444 (0.931) C:79% T:79%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.617U ± 0.556 (1.09)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-AP234-FB-2 **Lab ID: 92686980007** Collected: 09/08/23 12:20 Received: 09/08/23 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	**0.0274U ± 0.0918 (0.226) C:88% T:NA**	pCi/L	10/02/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.421U ± 0.403 (0.829) C:77% T:82%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.448U ± 0.495 (1.06)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-AP234-EB-2 **Lab ID: 92686980008** Collected: 09/08/23 12:30 Received: 09/08/23 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	**0.105U ± 0.129 (0.266) C:59% T:NA**	pCi/L	10/02/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.163U ± 0.335 (0.739) C:79% T:91%**	pCi/L	09/26/23 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.268U ± 0.464 (1.01)**	pCi/L	10/03/23 15:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-20 **Lab ID: 92686980009** Collected: 09/11/23 09:22 Received: 09/12/23 08:30 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	**0.136U ± 0.137 (0.265) C:72% T:NA**	pCi/L	10/04/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.31 ± 0.573 (0.969) C:75% T:77%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.45 ± 0.710 (1.23)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-12 **Lab ID: 92686980010** Collected: 09/11/23 10:10 Received: 09/12/23 08:30 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	**0.219U ± 0.151 (0.255) C:87% T:NA**	pCi/L	10/04/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.805 ± 0.425 (0.754) C:79% T:78%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.02 ± 0.576 (1.01)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-21 **Lab ID: 92686980011** Collected: 09/11/23 11:26 Received: 09/12/23 08:30 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	**0.138U ± 0.127 (0.246) C:89% T:NA**	pCi/L	10/04/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.291U ± 0.358 (0.757) C:77% T:75%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.429U ± 0.485 (1.00)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-22 **Lab ID: 92686980012** Collected: 09/11/23 13:19 Received: 09/12/23 08:30 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	**0.272 ± 0.156 (0.238) C:89% T:NA**	pCi/L	10/04/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.308U ± 0.351 (0.731) C:64% T:84%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.580U ± 0.507 (0.969)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-10 **Lab ID: 92686980013** Collected: 09/11/23 13:15 Received: 09/12/23 08:30 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	**0.376 ± 0.177 (0.255) C:96% T:NA**	pCi/L	10/04/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.711U ± 0.403 (0.723) C:75% T:80%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09 ± 0.580 (0.978)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-23 **Lab ID: 92686980014** Collected: 09/11/23 14:39 Received: 09/12/23 08:30 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	**0.407 ± 0.176 (0.206) C:89% T:NA**	pCi/L	10/04/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.869 ± 0.451 (0.789) C:73% T:75%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.28 ± 0.627 (0.995)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-AP234-FD-3 **Lab ID: 92686980015** Collected: 09/11/23 00:00 Received: 09/12/23 08:30 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	**0.0570U ± 0.133 (0.313) C:74% T:NA**	pCi/L	10/04/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.296U ± 0.314 (0.648) C:74% T:79%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.353U ± 0.447 (0.961)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-AP234-FB-3 **Lab ID: 92686980016** Collected: 09/11/23 10:05 Received: 09/12/23 08:30 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	**0.0672U ± 0.130 (0.298) C:79% T:NA**	pCi/L	10/04/23 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.329U ± 0.314 (0.639) C:74% T:87%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.396U ± 0.444 (0.937)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-AP234-EB-3 **Lab ID: 92686980017** Collected: 09/11/23 15:30 Received: 09/12/23 08:30 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	**0.0753U ± 0.114 (0.251) C:84% T:NA**	pCi/L	10/04/23 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0262U ± 0.308 (0.714) C:77% T:83%**	pCi/L	09/27/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.102U ± 0.422 (0.965)**	pCi/L	10/05/23 10:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-47 **Lab ID: 92686980018** Collected: 09/12/23 11:28 Received: 09/13/23 08:36 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	**0.572 ± 0.225 (0.268) C:82% T:NA**	pCi/L	10/04/23 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.62 ± 0.595 (0.924) C:74% T:84%**	pCi/L	09/27/23 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.19 ± 0.820 (1.19)**	pCi/L	10/05/23 11:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-8 **Lab ID: 92686980019** Collected: 09/12/23 11:12 Received: 09/13/23 08:36 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	**0.251 ± 0.154 (0.246) C:84% T:NA**	pCi/L	10/04/23 18:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.379U ± 0.408 (0.853) C:74% T:82%**	pCi/L	09/27/23 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.630U ± 0.562 (1.10)**	pCi/L	10/06/23 14:33	7440-14-4	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-2 **Lab ID: 92686980020** Collected: 09/13/23 10:48 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.648 ± 0.212 (0.169) C:90% T:NA**	pCi/L	10/04/23 18:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.216U ± 0.375 (0.818) C:74% T:86%**	pCi/L	09/27/23 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.864U ± 0.587 (0.987)**	pCi/L	10/06/23 14:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-4 **Lab ID: 92686980021** Collected: 09/13/23 14:54 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.470 ± 0.198 (0.262) C:89% T:NA**	pCi/L	10/04/23 18:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.494U ± 0.436 (0.886) C:77% T:80%**	pCi/L	09/27/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.964U ± 0.634 (1.15)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-5 **Lab ID: 92686980022** Collected: 09/13/23 10:38 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.471 ± 0.191 (0.209) C:83% T:NA**	pCi/L	10/04/23 18:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.754U ± 0.535 (1.06) C:75% T:81%**	pCi/L	09/27/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.23U ± 0.726 (1.27)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-17 **Lab ID: 92686980023** Collected: 09/13/23 12:20 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.338U ± 0.226 (0.393) C:87% T:NA**	pCi/L	10/04/23 18:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.686U ± 0.501 (0.986) C:72% T:82%**	pCi/L	09/27/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.02U ± 0.727 (1.38)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-42 **Lab ID: 92686980024** Collected: 09/13/23 14:47 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.259 ± 0.148 (0.220) C:95% T:NA**	pCi/L	10/04/23 18:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.33 ± 0.598 (1.01) C:72% T:80%**	pCi/L	09/27/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.59 ± 0.746 (1.23)**	pCi/L	10/06/23 14:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Sample: MCD-DGWC-48 **Lab ID: 92686980025** Collected: 09/13/23 10:20 Received: 09/14/23 14:22 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.211U ± 0.149 (0.262) C:89% T:NA**	pCi/L	10/05/23 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.01U ± 0.558 (1.02) C:74% T:81%**	pCi/L	09/27/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.22U ± 0.707 (1.28)**	pCi/L	10/06/23 14:33	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

QC Batch: 615444 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686980001, 92686980002, 92686980003, 92686980004, 92686980005, 92686980006, 92686980007, 92686980008

METHOD BLANK: 2997136 Matrix: Water
Associated Lab Samples: 92686980001, 92686980002, 92686980003, 92686980004, 92686980005, 92686980006, 92686980007, 92686980008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.131 ± 0.132 (0.266) C:78% T:NA	pCi/L	10/02/23 13:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

QC Batch: 616172
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686980009, 92686980010, 92686980011, 92686980012, 92686980013, 92686980014, 92686980015, 92686980016, 92686980017, 92686980018

METHOD BLANK: 3000655 Matrix: Water
Associated Lab Samples: 92686980009, 92686980010, 92686980011, 92686980012, 92686980013, 92686980014, 92686980015, 92686980016, 92686980017, 92686980018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0455 ± 0.105 (0.248) C:93% T:NA	pCi/L	10/04/23 08:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

QC Batch: 615445
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686980001, 92686980002, 92686980003, 92686980004, 92686980005, 92686980006, 92686980007, 92686980008

METHOD BLANK: 2997141
Matrix: Water
Associated Lab Samples: 92686980001, 92686980002, 92686980003, 92686980004, 92686980005, 92686980006, 92686980007, 92686980008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.465 ± 0.323 (0.609) C:77% T:85%	pCi/L	09/26/23 12:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

QC Batch: 616400 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92686980009, 92686980010, 92686980011, 92686980012, 92686980013, 92686980014, 92686980015, 92686980016, 92686980017, 92686980018, 92686980019, 92686980020, 92686980021, 92686980022, 92686980023, 92686980024, 92686980025

METHOD BLANK: 3001828 Matrix: Water
Associated Lab Samples: 92686980009, 92686980010, 92686980011, 92686980012, 92686980013, 92686980014, 92686980015, 92686980016, 92686980017, 92686980018, 92686980019, 92686980020, 92686980021, 92686980022, 92686980023, 92686980024, 92686980025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.135 ± 0.306 (0.681) C:74% T:79%	pCi/L	09/27/23 11:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

QC Batch:	616760	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92686980019, 92686980020, 92686980021, 92686980022, 92686980023, 92686980024, 92686980025

METHOD BLANK: 3003588 Matrix: Water

Associated Lab Samples: 92686980019, 92686980020, 92686980021, 92686980022, 92686980023, 92686980024, 92686980025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0109 ± 0.102 (0.265) C:89% T:NA	pCi/L	10/04/23 18:28	

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QUALIFIERS

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686980001	**MCD-DGWC-14**	EPA 9315	615444		
92686980002	**MCD-DGWC-11**	EPA 9315	615444		
92686980003	**MCD-DGWC-15**	EPA 9315	615444		
92686980004	**MCD-DGWC-19**	EPA 9315	615444		
92686980005	**MCD-DGWC-13**	EPA 9315	615444		
92686980006	**MCD-AP234-FD-2**	EPA 9315	615444		
92686980007	**MCD-AP234-FB-2**	EPA 9315	615444		
92686980008	**MCD-AP234-EB-2**	EPA 9315	615444		
92686980009	**MCD-DGWC-20**	EPA 9315	616172		
92686980010	**MCD-DGWC-12**	EPA 9315	616172		
92686980011	**MCD-DGWC-21**	EPA 9315	616172		
92686980012	**MCD-DGWC-22**	EPA 9315	616172		
92686980013	**MCD-DGWC-10**	EPA 9315	616172		
92686980014	**MCD-DGWC-23**	EPA 9315	616172		
92686980015	**MCD-AP234-FD-3**	EPA 9315	616172		
92686980016	**MCD-AP234-FB-3**	EPA 9315	616172		
92686980017	**MCD-AP234-EB-3**	EPA 9315	616172		
92686980018	**MCD-DGWC-47**	EPA 9315	616172		
92686980019	**MCD-DGWC-8**	EPA 9315	616760		
92686980020	**MCD-DGWC-2**	EPA 9315	616760		
92686980021	**MCD-DGWC-4**	EPA 9315	616760		
92686980022	**MCD-DGWC-5**	EPA 9315	616760		
92686980023	**MCD-DGWC-17**	EPA 9315	616760		
92686980024	**MCD-DGWC-42**	EPA 9315	616760		
92686980025	**MCD-DGWC-48**	EPA 9315	616760		
92686980001	**MCD-DGWC-14**	EPA 9320	615445		
92686980002	**MCD-DGWC-11**	EPA 9320	615445		
92686980003	**MCD-DGWC-15**	EPA 9320	615445		
92686980004	**MCD-DGWC-19**	EPA 9320	615445		
92686980005	**MCD-DGWC-13**	EPA 9320	615445		
92686980006	**MCD-AP234-FD-2**	EPA 9320	615445		
92686980007	**MCD-AP234-FB-2**	EPA 9320	615445		
92686980008	**MCD-AP234-EB-2**	EPA 9320	615445		
92686980009	**MCD-DGWC-20**	EPA 9320	616400		
92686980010	**MCD-DGWC-12**	EPA 9320	616400		
92686980011	**MCD-DGWC-21**	EPA 9320	616400		
92686980012	**MCD-DGWC-22**	EPA 9320	616400		
92686980013	**MCD-DGWC-10**	EPA 9320	616400		
92686980014	**MCD-DGWC-23**	EPA 9320	616400		
92686980015	**MCD-AP234-FD-3**	EPA 9320	616400		
92686980016	**MCD-AP234-FB-3**	EPA 9320	616400		
92686980017	**MCD-AP234-EB-3**	EPA 9320	616400		
92686980018	**MCD-DGWC-47**	EPA 9320	616400		
92686980019	**MCD-DGWC-8**	EPA 9320	616400		
92686980020	**MCD-DGWC-2**	EPA 9320	616400		
92686980021	**MCD-DGWC-4**	EPA 9320	616400		
92686980022	**MCD-DGWC-5**	EPA 9320	616400		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92686980

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92686980023	**MCD-DGWC-17**	EPA 9320	616400		
92686980024	**MCD-DGWC-42**	EPA 9320	616400		
92686980025	**MCD-DGWC-48**	EPA 9320	616400		
92686980001	**MCD-DGWC-14**	Total Radium Calculation	619773		
92686980002	**MCD-DGWC-11**	Total Radium Calculation	619773		
92686980003	**MCD-DGWC-15**	Total Radium Calculation	619773		
92686980004	**MCD-DGWC-19**	Total Radium Calculation	619773		
92686980005	**MCD-DGWC-13**	Total Radium Calculation	619773		
92686980006	**MCD-AP234-FD-2**	Total Radium Calculation	619773		
92686980007	**MCD-AP234-FB-2**	Total Radium Calculation	619773		
92686980008	**MCD-AP234-EB-2**	Total Radium Calculation	619773		
92686980009	**MCD-DGWC-20**	Total Radium Calculation	620330		
92686980010	**MCD-DGWC-12**	Total Radium Calculation	620330		
92686980011	**MCD-DGWC-21**	Total Radium Calculation	620330		
92686980012	**MCD-DGWC-22**	Total Radium Calculation	620330		
92686980013	**MCD-DGWC-10**	Total Radium Calculation	620330		
92686980014	**MCD-DGWC-23**	Total Radium Calculation	620330		
92686980015	**MCD-AP234-FD-3**	Total Radium Calculation	620330		
92686980016	**MCD-AP234-FB-3**	Total Radium Calculation	620330		
92686980017	**MCD-AP234-EB-3**	Total Radium Calculation	620330		
92686980018	**MCD-DGWC-47**	Total Radium Calculation	620332		
92686980019	**MCD-DGWC-8**	Total Radium Calculation	620771		
92686980020	**MCD-DGWC-2**	Total Radium Calculation	620771		
92686980021	**MCD-DGWC-4**	Total Radium Calculation	620771		
92686980022	**MCD-DGWC-5**	Total Radium Calculation	620771		
92686980023	**MCD-DGWC-17**	Total Radium Calculation	620771		
92686980024	**MCD-DGWC-42**	Total Radium Calculation	620771		
92686980025	**MCD-DGWC-48**	Total Radium Calculation	620771		

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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# : 92686980



Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/8/23

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

WO#: 92686980

PM: BV **Due Date: 10/02/23**

CLIENT: 92-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-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)	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)
1		2	1			1	1																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7		2	1			1	1																		2				
8		2	1			1	1																		2				
9		2	1			1	1																		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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

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 Fax:
Requested Due Date: 10 Day TAT

Section B — Required Project Information:
Report To: Lauren Coker
Copy To: WSP
Purchase Order #:
Project Name: Plant McD AP-234 Well Network
Project #: 31406440.McD23

Section C — Invoice Information:
Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Wang
Pace Profile #:

Regulatory Agency:
State / Location: GA

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

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686960
1	MCD-DGWC-14	WG	G	9/8/23	8:57		7	3		3		1					X	X	X	X	X	X		01
2	MCD-DGWC-11	WG	G	9/8/23	9:25		7	3		3		1					X	X	X	X	X	X		02
3	MCD-DGWC-15	WG	G	9/8/23	10:25		7	3		3		1					X	X	X	X	X	X		03
4	MCD-DGWC-19	WG	G	9/8/23	11:44		7	3		3		1					X	X	X	X	X	X		04
5	MCD-DGWC-13	WG	G	9/8/2023	12:00		7	3		3		1					X	X	X	X	X	X		05
6	MCD-AP234-FD-2	WG	G	9/8/2023	–		7	3		3		1					X	X	X	X	X	X		06
7	MCD-AP234-FB-2	WQ	G	9/8/23	12:20		7	3		3		1					X	X	X	X	X	X		07
8	MCD-AP234-EB-2	WQ	G	9/8/23	12:30		7	3		3		1					X	X	X	X	X	X		08
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	Mark Mann WSP	09/08/23	1550	JCE	9-8-23	1550

DATE Signed:

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoken@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-234 Well Network	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686980
								Preservatives									N	N	N	N	N	N		
1	MCD-DGWC-20	WG	G	9/11/23	9:22		7	3		3		1					X	X	X	X	X	X		009
2	MCD-DGWC-12	WG	G	9/11/23	10:10		9	3		5		1					X	X	X	X	X	X		010 Extra Reds
3	MCD-DGWC-21	WG	G	9/11/23	11:26		7	3		3		1					X	X	X	X	X	X		011
4	MCD-DGWC-22	WG	G	9/11/23	13:19		7	3		3		1					X	X	X	X	X	X		012
6	MCD-DGWC-10	WG	G	9/11/23	13:15		7	3		3		1					X	X	X	X	X	X		013
7	MCD-DGWC-23	WG	G	9/11/23	14:39		7	3		3		1					X	X	X	X	X	X		014
8	MCD-AP234-FD-3	WG	G	9/11/23	–		7	3		3		1					X	X	X	X	X	X		015
9	MCD-AP234-FB-3	WQ	G	9/11/23	10:05		7	3		3		1					X	X	X	X	X	X		016
10	MCD-AP234-EB-3	WQ	G	9/11/23	15:30		7	3		3		1					X	X	X	X	X	X		017
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
...ak Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/12/23	830	[signature] 834	9/12/23	
				[signature]	9/12/23	

Page 1 of 2

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 #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

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

Date/Initials Person Examining Contents: 4-12-23 AY

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: 4.6 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.8

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

Pace Analytical Services

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 #

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)	DG9Y-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)	BPZN	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																		2				
2		2	1			1	1																		4				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		8	1			1	1																		2				
7		2	1			1	1																		2				
8		2	1			1	1																		2				
9		2	1			1	1																		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 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#: 92686980

PM: BV Due Date: 10/02/23
CLIENT: 92-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: 4-13-23 AW

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 683

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.9

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

Qualtrax ID: 60614

**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#: 92686980

PM: BV Due Date: 10/02/23

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)	BP1N	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			1	1																		4				
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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.

Page 1 Of 1

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
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Address: 2480 Maner Road, Atlanta, GA 30339	Copy To: WSP	Company Name:
Email: laucoker@southernco.com	Purchase Order #:	Address:
Phone: (470) 820-6178 Fax:	Project Name: Plant McD AP-234 Well Network	Pace Quote:
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Project Manager: Bonnie Vang
		Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/V + Hg, Na, K, Fe	Cl, F, SO4	Radium 9613/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	
																Y/N	N	N	N	N	N	N		92686940
1	MCD-DGWC-47	WG	G	9/12/23	11:28		7	3		3		1					X	X	X	X	X	X		018
2	MCD-DGWC-8	WG	G	9/12/23	11:12		9	3		6		1					X	X	X	X	X	X		019 Extra Rads
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
k Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/13/23	836	M. BATH	9-13-23	
					9-13-23	

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 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#: 92686980

PM: BV **Due Date: 10/02/23**

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

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

Date/Initials Person Examining Contents: 9-14-23 KB

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 093

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.9

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

*****Check all unpreserved Nitrates for chlorine**

Project # WO# : 92686980

PM: BV Due Date: 10/02/23

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)	DPZN	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 Of 1

Section A — Required Client Information:
Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Maner Road, Atlanta, GA 30339
Email: laucoker@southernco.com
Phone: (470) 620-6176 Fax:
Requested Due Date: 10 Day TAT

Section B — Required Project Information:
Report To: Lauren Coker
Copy To: WSP
Purchase Order #:
Project Name: Plant McD AP-234 Well Network
Project #: 31406440.McD23

Section C — Invoice Information:
Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Vang
Pace Profile #:

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92686980
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N		
1	MCD-DGWC-2	WG	G	9/13/23	10:48		7	3		3		1					X	X	X	X	X	X		021
2	MCD-DGWC-4	WG	G	9/13/23	14:54		7	3		3		1					X	X	X	X	X	X		021
3	MCD-DGWC-5	WG	G	9/13/23	10:38		7	3		3		1					X	X	X	X	X	X		022
4	MCD-DGWC-17	WG	G	9/13/23	12:20		7	3		3		1					X	X	X	X	X	X		023
6	MCD-DGWC-42	WG	G	9/13/23	14:47		7	3		3		1					X	X	X	X	X	X		024
7	MCD-DGWC-48	WG	G	9/13/23	10:20		7	3		3		1					X	X	X	X	X	X		025
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2023S2	MARK MANN WSP	9/14/23	1422	Charles Hinds	9/14/23	1422

DATE Signed:

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/21/2023
Worklist:	75369
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3001828
MB concentration:	0.135
M/B 2 Sigma CSU:	0.306
MB MDC:	0.681
MB Numerical Performance Indicator:	0.86
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75369	LCSD75369
Count Date:	9/27/2023	9/27/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.655	39.655
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.819
Target Conc. (pCi/L, g, F):	4.837	4.842
Uncertainty (Calculated):	0.237	0.237
Result (pCi/L, g, F):	4.358	4.247
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.029	1.008
Numerical Performance Indicator:	-0.89	-1.13
Percent Recovery:	90.09%	87.71%
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.:	LCS75369	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75369	
Sample Result (pCi/L, g, F):	4.358	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.029	
Sample Duplicate Result (pCi/L, g, F):	4.247	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.008	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.150	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.67%	
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:

VAL
9/28/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/26/2023
Worklist:	75407
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3003588
MB concentration:	0.011
M/B 2 Sigma CSU:	0.102
MB MDC:	0.265
MB Numerical Performance Indicator:	0.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75407	LCSD75407
Count Date:	10/5/2023	10/5/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.998	4.981
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	5.480	5.211
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.964	0.927
Numerical Performance Indicator:	0.95	0.47
Percent Recovery:	109.66%	104.62%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS75407	92686980019
Duplicate Sample I.D.	LCSD75407	92686980019DUP
Sample Result (pCi/L, g, F):	5.480	0.251
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.964	0.154
Sample Duplicate Result (pCi/L, g, F):	5.211	0.173
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.927	0.144
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.395	0.730
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.70%	37.05%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

LAM 10/5/23

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 22, 2023

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

RE: Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 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
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power
Tina Sullivan, ERM

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92687817001	**MCD-UT01_US**	Water	09/13/23 14:06	09/14/23 09:29
92687817002	**MCD-UT02**	Water	09/13/23 13:58	09/14/23 09:29
92687817003	**MCD-UT03**	Water	09/13/23 13:47	09/14/23 09:29
92687817004	**MCD-UT01_DS**	Water	09/13/23 13:37	09/14/23 09:29
92687817005	**MCD-CR-0.1**	Water	09/12/23 13:40	09/14/23 09:29
92687817006	**MCD-CR+0.2**	Water	09/12/23 13:44	09/14/23 09:29
92687817007	**MCD-CR+0.4**	Water	09/12/23 13:47	09/14/23 09:29
92687817008	**MCD-DW_DS**	Water	09/12/23 13:35	09/14/23 09:29
92687817009	**MCD-DW_US**	Water	09/12/23 13:30	09/14/23 09:29
92687817010	**MCD-CR-0.2**	Water	09/12/23 13:24	09/14/23 09:29
92687817011	**MCD-CR-0.5**	Water	09/12/23 13:15	09/14/23 09:29

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92687817001	**MCD-UT01_US**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817002	**MCD-UT02**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817003	**MCD-UT03**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817004	**MCD-UT01_DS**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817005	**MCD-CR-0.1**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817006	**MCD-CR+0.2**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817007	**MCD-CR+0.4**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817008	**MCD-DW_DS**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817009	**MCD-DW_US**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817010	**MCD-CR-0.2**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92687817011	**MCD-CR-0.5**	EPA 6010D	DRB	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	YEG	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

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-UT01_US **Lab ID: 92687817001** Collected: 09/13/23 14:06 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/15/23 13:12	09/17/23 14:38	7440-42-8	
Potassium	**2.8**	mg/L	0.50	1	09/15/23 13:12	09/17/23 14:38	7440-09-7	
Sodium	**5.5**	mg/L	1.0	1	09/15/23 13:12	09/17/23 14:38	7440-23-5	
Calcium	**11.8**	mg/L	1.0	1	09/15/23 13:12	09/17/23 14:38	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	1	09/15/23 13:12	09/17/23 14:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:19	7440-38-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**56.0**	mg/L	25.0	1		09/19/23 17:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**35.3**	mg/L	5.0	1		09/15/23 16:12		
Alkalinity, Total as CaCO3	**35.3**	mg/L	5.0	1		09/15/23 16:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**5.1**	mg/L	1.0	1		09/15/23 13:06	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	1		09/15/23 13:06	16984-48-8	
Sulfate	**7.3**	mg/L	1.0	1		09/15/23 13:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-UT02 **Lab ID: 92687817002** Collected: 09/13/23 13:58 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.040**	mg/L	0.040	1	09/15/23 13:12	09/17/23 14:43	7440-42-8	
Potassium	**2.6**	mg/L	0.50	1	09/15/23 13:12	09/17/23 14:43	7440-09-7	
Sodium	**5.5**	mg/L	1.0	1	09/15/23 13:12	09/17/23 14:43	7440-23-5	
Calcium	**11.5**	mg/L	1.0	1	09/15/23 13:12	09/17/23 14:43	7440-70-2	
Magnesium	**1.8**	mg/L	0.050	1	09/15/23 13:12	09/17/23 14:43	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:23	7440-38-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**63.0**	mg/L	25.0	1		09/19/23 17:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**34.9**	mg/L	5.0	1		09/15/23 16:19		
Alkalinity, Total as CaCO3	**34.9**	mg/L	5.0	1		09/15/23 16:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**5.2**	mg/L	1.0	1		09/15/23 13:52	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	1		09/15/23 13:52	16984-48-8	
Sulfate	**7.8**	mg/L	1.0	1		09/15/23 13:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-UT03 **Lab ID: 92687817003** Collected: 09/13/23 13:47 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.049**	mg/L	0.040	1	09/15/23 13:12	09/17/23 14:48	7440-42-8	
Potassium	**2.7**	mg/L	0.50	1	09/15/23 13:12	09/17/23 14:48	7440-09-7	
Sodium	**5.5**	mg/L	1.0	1	09/15/23 13:12	09/17/23 14:48	7440-23-5	
Calcium	**11.7**	mg/L	1.0	1	09/15/23 13:12	09/17/23 14:48	7440-70-2	M1
Magnesium	**1.9**	mg/L	0.050	1	09/15/23 13:12	09/17/23 14:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:27	7440-38-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**89.0**	mg/L	25.0	1		09/19/23 14:23		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**35.3**	mg/L	5.0	1		09/15/23 16:25		
Alkalinity, Total as CaCO3	**35.3**	mg/L	5.0	1		09/15/23 16:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**4.9**	mg/L	1.0	1		09/15/23 14:08	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	1		09/15/23 14:08	16984-48-8	
Sulfate	**7.9**	mg/L	1.0	1		09/15/23 14:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-UT01_DS **Lab ID: 92687817004** Collected: 09/13/23 13:37 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.058**	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:09	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:09	7440-09-7	
Sodium	**5.1**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:09	7440-23-5	
Calcium	**11.2**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:09	7440-70-2	
Magnesium	**1.8**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:30	7440-38-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**88.0**	mg/L	25.0	1		09/19/23 14:23		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**34.1**	mg/L	5.0	1		09/15/23 16:31		
Alkalinity, Total as CaCO3	**34.1**	mg/L	5.0	1		09/15/23 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**4.7**	mg/L	1.0	1		09/15/23 14:23	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	1		09/15/23 14:23	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	1		09/15/23 14:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-CR-0.1 **Lab ID: 92687817005** Collected: 09/12/23 13:40 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.043**	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:14	7440-42-8	
Potassium	**3.4**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:14	7440-09-7	
Sodium	**9.4**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:14	7440-23-5	
Calcium	**7.0**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:14	7440-70-2	
Magnesium	**2.2**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:14	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:34	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 19:34	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**50.0**	mg/L	25.0	1		09/18/23 12:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**27.0**	mg/L	5.0	1		09/15/23 16:38		
Alkalinity, Total as CaCO3	**27.0**	mg/L	5.0	1		09/15/23 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.5**	mg/L	1.0	1		09/15/23 15:10	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/15/23 15:10	16984-48-8	
Sulfate	**7.1**	mg/L	1.0	1		09/15/23 15:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-CR+0.2 **Lab ID: 92687817006** Collected: 09/12/23 13:44 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:19	7440-42-8	
Potassium	**3.4**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:19	7440-09-7	
Sodium	**9.2**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:19	7440-23-5	
Calcium	**6.9**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:19	7440-70-2	
Magnesium	**2.2**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:38	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 19:38	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**65.0**	mg/L	25.0	1		09/18/23 12:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**26.5**	mg/L	5.0	1		09/15/23 16:44		
Alkalinity, Total as CaCO3	**26.5**	mg/L	5.0	1		09/15/23 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.2**	mg/L	1.0	1		09/15/23 15:25	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/15/23 15:25	16984-48-8	
Sulfate	**6.6**	mg/L	1.0	1		09/15/23 15:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-CR+0.4 **Lab ID: 92687817007** Collected: 09/12/23 13:47 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.041**	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:35	7440-42-8	
Potassium	**3.3**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:35	7440-09-7	
Sodium	**8.8**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:35	7440-23-5	
Calcium	**6.7**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:35	7440-70-2	
Magnesium	**2.1**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:42	7440-38-2	
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:42	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 19:42	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**47.0**	mg/L	25.0	1		09/18/23 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**25.7**	mg/L	5.0	1		09/15/23 16:50		
Alkalinity, Total as CaCO3	**25.7**	mg/L	5.0	1		09/15/23 16:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.1**	mg/L	1.0	1		09/15/23 15:41	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/15/23 15:41	16984-48-8	
Sulfate	**6.8**	mg/L	1.0	1		09/15/23 15:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-DW_DS **Lab ID: 92687817008** Collected: 09/12/23 13:35 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.050**	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:40	7440-42-8	
Potassium	**3.3**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:40	7440-09-7	
Sodium	**9.4**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:40	7440-23-5	
Calcium	**7.1**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:40	7440-70-2	
Magnesium	**2.3**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:54	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 19:54	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**63.0**	mg/L	25.0	1		09/18/23 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**25.7**	mg/L	5.0	1		09/15/23 17:05		
Alkalinity, Total as CaCO3	**25.7**	mg/L	5.0	1		09/15/23 17:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.6**	mg/L	1.0	1		09/15/23 15:56	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/15/23 15:56	16984-48-8	
Sulfate	**7.8**	mg/L	1.0	1		09/15/23 15:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-DW_US **Lab ID: 92687817009** Collected: 09/12/23 13:30 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:45	7440-42-8	
Potassium	**3.2**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:45	7440-09-7	
Sodium	**8.5**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:45	7440-23-5	
Calcium	**6.4**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:45	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 19:58	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 19:58	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**46.0**	mg/L	25.0	1		09/18/23 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**25.7**	mg/L	5.0	1		09/15/23 17:11		
Alkalinity, Total as CaCO3	**25.7**	mg/L	5.0	1		09/15/23 17:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.0**	mg/L	1.0	1		09/15/23 16:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/15/23 16:12	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	1		09/15/23 16:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-CR-0.2 **Lab ID: 92687817010** Collected: 09/12/23 13:24 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:50	7440-42-8	
Potassium	**3.4**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:50	7440-09-7	
Sodium	**9.0**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:50	7440-23-5	
Calcium	**6.8**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:50	7440-70-2	
Magnesium	**2.2**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:50	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 20:02	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 20:02	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**53.0**	mg/L	25.0	1		09/18/23 12:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**25.3**	mg/L	5.0	1		09/15/23 17:17		
Alkalinity, Total as CaCO3	**25.3**	mg/L	5.0	1		09/15/23 17:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.2**	mg/L	1.0	1		09/15/23 16:58	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	1		09/15/23 16:58	16984-48-8	
Sulfate	**6.4**	mg/L	1.0	1		09/15/23 16:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Sample: MCD-CR-0.5 **Lab ID: 92687817011** Collected: 09/12/23 13:15 Received: 09/14/23 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	09/15/23 13:12	09/17/23 15:55	7440-42-8	
Potassium	**3.2**	mg/L	0.50	1	09/15/23 13:12	09/17/23 15:55	7440-09-7	
Sodium	**8.6**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:55	7440-23-5	
Calcium	**6.5**	mg/L	1.0	1	09/15/23 13:12	09/17/23 15:55	7440-70-2	
Magnesium	**2.1**	mg/L	0.050	1	09/15/23 13:12	09/17/23 15:55	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	09/15/23 09:34	09/15/23 20:06	7440-48-4	
Lithium	ND	mg/L	0.030	1	09/15/23 09:34	09/15/23 20:06	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**50.0**	mg/L	25.0	1		09/19/23 17:35		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**25.5**	mg/L	5.0	1		09/15/23 17:23		
Alkalinity, Total as CaCO3	**25.5**	mg/L	5.0	1		09/15/23 17:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	**9.2**	mg/L	1.0	1		09/15/23 17:14	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/15/23 17:14	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	1		09/15/23 17:14	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 799977
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

METHOD BLANK: 4143584 Matrix: Water
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	09/17/23 14:17	
Calcium	mg/L	ND	1.0	09/17/23 14:17	
Magnesium	mg/L	ND	0.050	09/17/23 14:17	
Potassium	mg/L	ND	0.50	09/17/23 14:17	
Sodium	mg/L	ND	1.0	09/17/23 14:17	

LABORATORY CONTROL SAMPLE: 4143585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.95	95	80-120	
Calcium	mg/L	1	.99J	99	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	0.85	85	80-120	
Sodium	mg/L	1	ND	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143586 4143587

Parameter	Units	92687817003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.049	1	1	1.1	1.1	104	103	75-125	0	20	
Calcium	mg/L	11.7	1	1	12.5	12.4	89	71	75-125	1	20	M1
Magnesium	mg/L	1.9	1	1	2.9	2.9	106	104	75-125	1	20	
Potassium	mg/L	2.7	1	1	3.7	3.6	104	92	75-125	3	20	
Sodium	mg/L	5.5	1	1	6.3	6.3	84	81	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 799918
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

METHOD BLANK: 4143353 Matrix: Water
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	09/15/23 18:19	
Cobalt	mg/L	ND	0.0050	09/15/23 18:19	
Lithium	mg/L	ND	0.030	09/15/23 18:19	

LABORATORY CONTROL SAMPLE: 4143354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143355 4143356

Parameter	Units	92687591008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Cobalt	mg/L	12.0 ug/L	0.1	0.1	0.12	0.12	103	104	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.098	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 800282 | 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: 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010

METHOD BLANK: 4144980 Matrix: Water
Associated Lab Samples: 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/18/23 12:43	

LABORATORY CONTROL SAMPLE: 4144981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	370	92	80-120	

SAMPLE DUPLICATE: 4144982

Parameter	Units	92687223010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4144983

Parameter	Units	92686679022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	560	567	1	10	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 800459
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92687817001, 92687817002, 92687817011

METHOD BLANK: 4145961 Matrix: Water
Associated Lab Samples: 92687817001, 92687817002, 92687817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/19/23 17:34	

LABORATORY CONTROL SAMPLE: 4145962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	378	94	80-120	

SAMPLE DUPLICATE: 4145963

Parameter	Units	92687817011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50.0	51.0	2	10	

SAMPLE DUPLICATE: 4145964

Parameter	Units	92687572003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	77.0	81.0	5	10	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 800526
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92687817003, 92687817004

METHOD BLANK: 4146467 Matrix: Water
Associated Lab Samples: 92687817003, 92687817004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	09/19/23 14:21	

LABORATORY CONTROL SAMPLE: 4146468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 4146469

Parameter	Units	92687621001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	52.0	22	10	D6

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 799970
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

METHOD BLANK: 4143554 Matrix: Water
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	09/15/23 15:54	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	09/15/23 15:54	

LABORATORY CONTROL SAMPLE: 4143555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4143556

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: 4143557 4143558

Parameter	Units	92686679021 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	13.1	50	50	66.9	67.5	107	109	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143559 4143560

Parameter	Units	92686679022 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	28.4	50	50	80.2	81.5	104	106	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

QC Batch: 799893
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

METHOD BLANK: 4143260 Matrix: Water
Associated Lab Samples: 92687817001, 92687817002, 92687817003, 92687817004, 92687817005, 92687817006, 92687817007, 92687817008, 92687817009, 92687817010, 92687817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	09/15/23 12:02	
Fluoride	mg/L	ND	0.10	09/15/23 12:02	
Sulfate	mg/L	ND	1.0	09/15/23 12:02	

LABORATORY CONTROL SAMPLE: 4143261

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	2.5	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143264 4143265

Parameter	Units	92687817009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.0	50	50	58.5	59.5	99	101	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	101	103	90-110	2	10	
Sulfate	mg/L	6.2	50	50	55.8	56.9	99	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4143456 4143457

Parameter	Units	92687817001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.1	50	50	54.3	55.5	98	101	90-110	2	10	
Fluoride	mg/L	0.19	2.5	2.5	2.7	2.8	100	103	90-110	3	10	
Sulfate	mg/L	7.3	50	50	56.6	58.0	99	101	90-110	2	10	

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QUALIFIERS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92687817001	**MCD-UT01_US**	EPA 3010A	799977	EPA 6010D	800078
92687817002	**MCD-UT02**	EPA 3010A	799977	EPA 6010D	800078
92687817003	**MCD-UT03**	EPA 3010A	799977	EPA 6010D	800078
92687817004	**MCD-UT01_DS**	EPA 3010A	799977	EPA 6010D	800078
92687817005	**MCD-CR-0.1**	EPA 3010A	799977	EPA 6010D	800078
92687817006	**MCD-CR+0.2**	EPA 3010A	799977	EPA 6010D	800078
92687817007	**MCD-CR+0.4**	EPA 3010A	799977	EPA 6010D	800078
92687817008	**MCD-DW_DS**	EPA 3010A	799977	EPA 6010D	800078
92687817009	**MCD-DW_US**	EPA 3010A	799977	EPA 6010D	800078
92687817010	**MCD-CR-0.2**	EPA 3010A	799977	EPA 6010D	800078
92687817011	**MCD-CR-0.5**	EPA 3010A	799977	EPA 6010D	800078
92687817001	**MCD-UT01_US**	EPA 3005A	799918	EPA 6020B	800012
92687817002	**MCD-UT02**	EPA 3005A	799918	EPA 6020B	800012
92687817003	**MCD-UT03**	EPA 3005A	799918	EPA 6020B	800012
92687817004	**MCD-UT01_DS**	EPA 3005A	799918	EPA 6020B	800012
92687817005	**MCD-CR-0.1**	EPA 3005A	799918	EPA 6020B	800012
92687817006	**MCD-CR+0.2**	EPA 3005A	799918	EPA 6020B	800012
92687817007	**MCD-CR+0.4**	EPA 3005A	799918	EPA 6020B	800012
92687817008	**MCD-DW_DS**	EPA 3005A	799918	EPA 6020B	800012
92687817009	**MCD-DW_US**	EPA 3005A	799918	EPA 6020B	800012
92687817010	**MCD-CR-0.2**	EPA 3005A	799918	EPA 6020B	800012
92687817011	**MCD-CR-0.5**	EPA 3005A	799918	EPA 6020B	800012
92687817001	**MCD-UT01_US**	SM 2540C-2015	800459		
92687817002	**MCD-UT02**	SM 2540C-2015	800459		
92687817003	**MCD-UT03**	SM 2540C-2015	800526		
92687817004	**MCD-UT01_DS**	SM 2540C-2015	800526		
92687817005	**MCD-CR-0.1**	SM 2540C-2015	800282		
92687817006	**MCD-CR+0.2**	SM 2540C-2015	800282		
92687817007	**MCD-CR+0.4**	SM 2540C-2015	800282		
92687817008	**MCD-DW_DS**	SM 2540C-2015	800282		
92687817009	**MCD-DW_US**	SM 2540C-2015	800282		
92687817010	**MCD-CR-0.2**	SM 2540C-2015	800282		
92687817011	**MCD-CR-0.5**	SM 2540C-2015	800459		
92687817001	**MCD-UT01_US**	SM 2320B-2011	799970		
92687817002	**MCD-UT02**	SM 2320B-2011	799970		
92687817003	**MCD-UT03**	SM 2320B-2011	799970		
92687817004	**MCD-UT01_DS**	SM 2320B-2011	799970		
92687817005	**MCD-CR-0.1**	SM 2320B-2011	799970		
92687817006	**MCD-CR+0.2**	SM 2320B-2011	799970		
92687817007	**MCD-CR+0.4**	SM 2320B-2011	799970		
92687817008	**MCD-DW_DS**	SM 2320B-2011	799970		
92687817009	**MCD-DW_US**	SM 2320B-2011	799970		
92687817010	**MCD-CR-0.2**	SM 2320B-2011	799970		
92687817011	**MCD-CR-0.5**	SM 2320B-2011	799970		
92687817001	**MCD-UT01_US**	EPA 300.0 Rev 2.1 1993	799893		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92687817

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92687817002	**MCD-UT02**	EPA 300.0 Rev 2.1 1993	799893		
92687817003	**MCD-UT03**	EPA 300.0 Rev 2.1 1993	799893		
92687817004	**MCD-UT01_DS**	EPA 300.0 Rev 2.1 1993	799893		
92687817005	**MCD-CR-0.1**	EPA 300.0 Rev 2.1 1993	799893		
92687817006	**MCD-CR+0.2**	EPA 300.0 Rev 2.1 1993	799893		
92687817007	**MCD-CR+0.4**	EPA 300.0 Rev 2.1 1993	799893		
92687817008	**MCD-DW_DS**	EPA 300.0 Rev 2.1 1993	799893		
92687817009	**MCD-DW_US**	EPA 300.0 Rev 2.1 1993	799893		
92687817010	**MCD-CR-0.2**	EPA 300.0 Rev 2.1 1993	799893		
92687817011	**MCD-CR-0.5**	EPA 300.0 Rev 2.1 1993	799893		

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Pace Analytical
WWW.PACELABS.COM

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

WO# : 92687817

92687817

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ARCADIS - Atlanta	Report To:	Kelley Sharpe, Warren Johnson	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:	Ben Hodges, Joju Abraham	Company Name:	
Atlanta, GA 30339		Copy To:		Address:	
Email:	kelley.sharpe@arcadis.com	Purchase Order #:	GPC11066177	Pace Quote:	
Phone:	(770)384-6584 Fax:	Project Name:	Plant McDonough/CCR-Ash Pond Closure	Pace Project Manager:	maiya.parks@pacelabs.com,
Requested Due Date:	5 Day TAT	Project #:		Pace Profile #:	12896

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)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total/Bicarb Alkalinity	TDS	Cl, F, SO4	App. III Metals + Mg, Na, K	Metals - As, Co, Li	Metals - As	Metals - Co, Li	Residual Chlorine (Y/N)
1	MCD-UT01_US	WS	G	9/13/23	1406				3	X		X														
2	MCD-UT02	WS	G	9/13/23	1358				3	X		X														
3	MCD-UT03	WS	G	9/13/23	1347				3	X		X														
4	MCD-UT01_DS	WS	G	9/13/23	1337				3	X		X														
5	MCD-CR-0.1	WS	G	9/12/23	1340				3	X		X														
6	MCD-CR+0.2	WS	G	9/12/23	1344				3	X		X														
7	MCD-CR+0.4	WS	G	9/12/23	1347				3	X		X														
8	MCD-DW_DS	WS	G	9/12/23	1335				3	X		X														
9	MCD-DW_US	WS	G	9/12/23	1330				3	X		X														
10	MCD-CR-0.2	WS	G	9/12/23	1324				3	X		X														
11	MCD-CR-0.5	WS	G	9/12/23	1315				3	X		X														
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
MCD-CSURF-ASSMT-2023	[signature] / Arcadis	9/14/23	0915	[signature]	9-14	0929	
6020: As, Co, Li							
6010: B, Ca, Mg, K, Na							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Garrett G					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 9-14-23				

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 ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: ARCADIS

Project #:

WO#: 92687817

PM: MP Due Date: 09/21/23

CLIENT: GA-ArcadAtl

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

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

Date/Initials Person Examining Contents: 4-14-23 AL

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 093

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 16.6 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 16.6

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ 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:** _____

Pace ANALYTICAL SERVICES

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

Effective Date: 11/14/2022

WO#: 92687817

PM: MP **Due Date: 09/21/23**

CLIENT: GA-ArcadAtl

***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 #

****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 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	X																						
2			2			1	X																						
3			2			1	X																						
4			2			1	X																						
5			2			1	X																						
6			2			1	X																						
7			2			1	X																						
8			2			1	X																						
9			2			1	X																						
10			2			1	X																						
11			2			1	X																						
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

Laboratory Analytical Data January-February 2024

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 20, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between January 31, 2024 and February 06, 2024. 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710886001	**MCD-DGWC-42**	Water	01/30/24 15:45	01/31/24 09:38
92710886002	**MCD-AP234-FD-2**	Water	01/30/24 00:00	01/31/24 09:38
92710886003	**MCD-DGWC-21**	Water	01/31/24 12:12	02/01/24 09:42
92710886004	**MCD-DGWC-22**	Water	01/31/24 14:02	02/01/24 09:42
92710886005	**MCD-DGWC-23**	Water	01/31/24 15:47	02/01/24 09:42
92710886006	**MCD-DGWC-13**	Water	01/31/24 16:05	02/01/24 09:42
92710886007	**MCD-AP234-FD-3**	Water	01/31/24 00:00	02/01/24 09:42
92710886008	**MCD-AP234-FB-2**	Water	01/31/24 14:15	02/01/24 09:42
92710886009	**MCD-DGWC-2**	Water	02/01/24 10:40	02/02/24 14:17
92710886010	**MCD-DGWC-4**	Water	02/01/24 12:15	02/02/24 14:17
92710886011	**MCD-DGWC-5**	Water	02/01/24 13:28	02/02/24 14:17
92710886012	**MCD-DGWC-8**	Water	02/01/24 14:38	02/02/24 14:17
92710886013	**MCD-DGWC-11**	Water	02/01/24 14:48	02/02/24 14:17
92710886014	**MCD-DGWC-19**	Water	02/01/24 14:38	02/02/24 14:17
92710886015	**MCD-DGWC-20**	Water	02/01/24 13:10	02/02/24 14:17
92710886016	**MCD-AP234-EB-2**	Water	02/01/24 15:20	02/02/24 14:17
92710886017	**MCD-AP234-EB-3**	Water	02/01/24 15:00	02/02/24 14:17
92710886018	**MCD-AP234-FB-3**	Water	02/01/24 12:15	02/02/24 14:17
92710886019	**MCD-DGWC-10**	Water	02/02/24 11:32	02/02/24 14:17
92710886020	**MCD-DGWC-12**	Water	02/02/24 11:51	02/02/24 14:17
92710886021	**MCD-DGWC-17**	Water	02/06/24 10:01	02/06/24 13:55
92710886022	**MCD-DGWC-47**	Water	02/05/24 10:35	02/06/24 13:55
92710886023	**MCD-DGWC-48**	Water	02/05/24 12:55	02/06/24 13:55
92710886024	**MCD-DGWC-15**	Water	02/05/24 10:53	02/06/24 13:55
92710886025	**MCD-DGWC-14**	Water	02/05/24 09:22	02/06/24 13:55

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92710886001	**MCD-DGWC-42**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886002	**MCD-AP234-FD-2**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886003	**MCD-DGWC-21**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886004	**MCD-DGWC-22**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886005	**MCD-DGWC-23**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886006	**MCD-DGWC-13**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886007	**MCD-AP234-FD-3**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886008	**MCD-AP234-FB-2**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886009	**MCD-DGWC-2**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886010	**MCD-DGWC-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886011	**MCD-DGWC-5**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886012	**MCD-DGWC-8**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886013	**MCD-DGWC-11**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886014	**MCD-DGWC-19**	EPA 6010D	DRB	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886015	**MCD-DGWC-20**	EPA 6010D	AJM	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886016	**MCD-AP234-EB-2**	EPA 6010D	DRB	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886017	**MCD-AP234-EB-3**	EPA 6010D	DRB	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886018	**MCD-AP234-FB-3**	EPA 6010D	DRB	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886019	**MCD-DGWC-10**	EPA 6010D	DRB	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886020	**MCD-DGWC-12**	EPA 6010D	DRB	5
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710886021	**MCD-DGWC-17**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886022	**MCD-DGWC-47**	EPA 6010D	AJM	5

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886023	**MCD-DGWC-48**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886024	**MCD-DGWC-15**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710886025	**MCD-DGWC-14**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-42 **Lab ID: 92710886001** Collected: 01/30/24 15:45 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.078**	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 01:57	7439-89-6	
Potassium	**4.9**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 01:57	7440-09-7	
Calcium	**29.9**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 01:57	7440-70-2	
Magnesium	**23.3**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 01:57	7439-95-4	
Sodium	**70.8**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 00:43	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/01/24 10:22	02/01/24 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 18:54	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 18:54	7440-39-3	
Beryllium	**0.0024**	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 18:54	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 18:54	7440-42-8	
Cadmium	**0.0010**	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 18:54	7440-47-3	
Cobalt	**0.0076**	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 18:54	7440-48-4	
Lead	**0.00017J**	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 18:54	7439-92-1	
Lithium	**0.0078J**	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 18:54	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	02/13/24 10:30	02/13/24 15:11	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**7.5**	mg/L	5.0	5.0	1		02/05/24 14:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 14:31		
Alkalinity, Total as CaCO3	**7.5**	mg/L	5.0	5.0	1		02/05/24 14:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**551**	mg/L	25.0	25.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/01/24 06:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.1**	mg/L	1.0	0.60	1		02/02/24 02:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 02:24	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-42 **Lab ID: 92710886001** Collected: 01/30/24 15:45 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**294**	mg/L	6.0	3.0	6		02/01/24 11:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FD-2 **Lab ID: 92710886002** Collected: 01/30/24 00:00 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.081**	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 02:02	7439-89-6	
Potassium	**5.3**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 02:02	7440-09-7	
Calcium	**32.3**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 02:02	7440-70-2	
Magnesium	**25.0**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 02:02	7439-95-4	
Sodium	**70.1**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 00:48	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/01/24 10:22	02/01/24 18:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 18:57	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 18:57	7440-39-3	
Beryllium	**0.0024**	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 18:57	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 18:57	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 18:57	7440-47-3	
Cobalt	**0.0072**	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 18:57	7440-48-4	
Lead	**0.00016J**	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 18:57	7439-92-1	
Lithium	**0.0076J**	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 18:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:27	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.0**	mg/L	5.0	5.0	1		02/05/24 14:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 14:45		
Alkalinity, Total as CaCO3	**8.0**	mg/L	5.0	5.0	1		02/05/24 14:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**523**	mg/L	25.0	25.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/01/24 06:24	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.0**	mg/L	1.0	0.60	1		02/02/24 02:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 02:38	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FD-2 **Lab ID: 92710886002** Collected: 01/30/24 00:00 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**294**	mg/L	6.0	3.0	6		02/01/24 11:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-21 **Lab ID: 92710886003** Collected: 01/31/24 12:12 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 04:25	7439-89-6	
Sodium	**22.8**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 04:25	7440-23-5	
Calcium	**85.3**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 04:25	7440-70-2	
Magnesium	**18.2**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 04:25	7439-95-4	
Potassium	**6.4**	mg/L	2.5	0.76	5	02/02/24 10:25	02/10/24 12:11	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	0.00054	1	02/02/24 09:55	02/02/24 18:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:10	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:10	7440-39-3	
Beryllium	**0.00017J**	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:10	7440-41-7	
Boron	**6.5**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:10	7440-42-8	
Cadmium	**0.00057**	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:10	7440-47-3	
Cobalt	**0.0097**	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:10	7439-92-1	
Lithium	**0.0065J**	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:30	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**31.5**	mg/L	5.0	5.0	1		02/05/24 18:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 18:40		
Alkalinity, Total as CaCO3	**31.5**	mg/L	5.0	5.0	1		02/05/24 18:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**503**	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		02/02/24 05:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 05:12	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-21 **Lab ID: 92710886003** Collected: 01/31/24 12:12 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**267**	mg/L	6.0	3.0	6		02/02/24 08:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-22 **Lab ID: 92710886004** Collected: 01/31/24 14:02 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.9**	mg/L	2.5	0.76	5	02/02/24 10:25	02/10/24 12:15	7440-09-7	
Iron	ND	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 04:35	7439-89-6	
Sodium	**24.7**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 04:35	7440-23-5	
Calcium	**57.1**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 04:35	7440-70-2	
Magnesium	**20.7**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 04:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/02/24 09:55	02/02/24 18:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:14	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:14	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:14	7440-41-7	
Boron	**4.5**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:14	7440-42-8	
Cadmium	**0.00055**	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:14	7440-47-3	
Cobalt	**0.0067**	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:14	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:32	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.8**	mg/L	5.0	5.0	1		02/05/24 18:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 18:46		
Alkalinity, Total as CaCO3	**24.8**	mg/L	5.0	5.0	1		02/05/24 18:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**423**	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.0**	mg/L	1.0	0.60	1		02/02/24 05:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 05:27	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-22 **Lab ID: 92710886004** Collected: 01/31/24 14:02 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**224**	mg/L	5.0	2.5	5		02/02/24 08:52	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-23 **Lab ID: 92710886005** Collected: 01/31/24 15:47 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.025J**	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 04:45	7439-89-6	
Sodium	**23.4**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 04:45	7440-23-5	
Calcium	**95.7**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 04:45	7440-70-2	
Magnesium	**23.4**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 04:45	7439-95-4	
Potassium	**6.7**	mg/L	2.5	0.76	5	02/02/24 10:25	02/10/24 12:20	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	0.00054	1	02/02/24 09:55	02/02/24 18:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:18	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:18	7440-39-3	
Beryllium	**0.00048J**	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:18	7440-41-7	
Boron	**5.3**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:18	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:18	7440-47-3	
Cobalt	**0.00070J**	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:18	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:18	7439-93-2	
Molybdenum	**0.0069J**	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 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	02/13/24 10:30	02/13/24 15:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**80.8**	mg/L	5.0	5.0	1		02/05/24 18:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 18:52		
Alkalinity, Total as CaCO3	**80.8**	mg/L	5.0	5.0	1		02/05/24 18:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**564**	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.5**	mg/L	1.0	0.60	1		02/02/24 06:57	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		02/02/24 06:57	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-23 **Lab ID: 92710886005** Collected: 01/31/24 15:47 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**279**	mg/L	6.0	3.0	6		02/02/24 10:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-13 **Lab ID: 92710886006** Collected: 01/31/24 16:05 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.4**	mg/L	2.5	0.76	5	02/02/24 10:25	02/10/24 12:25	7440-09-7	
Iron	**0.037J**	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 04:54	7439-89-6	
Sodium	**17.0**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 04:54	7440-23-5	
Calcium	**30.8**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 04:54	7440-70-2	
Magnesium	**7.2**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 04:54	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	0.00054	1	02/02/24 09:55	02/02/24 18:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:22	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:22	7440-41-7	
Boron	**0.63**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:22	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:22	7439-93-2	
Molybdenum	**0.0081J**	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:22	7439-98-7	
Selenium	**0.0039J**	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:38	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.5**	mg/L	5.0	5.0	1		02/05/24 19:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 19:01		
Alkalinity, Total as CaCO3	**22.5**	mg/L	5.0	5.0	1		02/05/24 19:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**216**	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.1**	mg/L	1.0	0.60	1		02/02/24 07:12	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		02/02/24 07:12	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-13 **Lab ID: 92710886006** Collected: 01/31/24 16:05 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**100**	mg/L	2.0	1.0	2		02/02/24 10:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FD-3 **Lab ID: 92710886007** Collected: 01/31/24 00:00 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.7**	mg/L	2.5	0.76	5	02/02/24 10:25	02/10/24 12:30	7440-09-7	
Iron	ND	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 05:04	7439-89-6	
Sodium	**22.3**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 05:04	7440-23-5	
Calcium	**82.7**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 05:04	7440-70-2	
Magnesium	**17.7**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 05:04	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/02/24 09:55	02/02/24 18:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:26	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:26	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:26	7440-41-7	
Boron	**6.5**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:26	7440-42-8	
Cadmium	**0.00054**	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:26	7440-47-3	
Cobalt	**0.0094**	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:26	7439-92-1	
Lithium	**0.0064J**	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:40	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**30.4**	mg/L	5.0	5.0	1		02/06/24 12:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 12:16		
Alkalinity, Total as CaCO3	**30.4**	mg/L	5.0	5.0	1		02/06/24 12:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**520**	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		02/02/24 07:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 07:26	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FD-3 **Lab ID: 92710886007** Collected: 01/31/24 00:00 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**266**	mg/L	6.0	3.0	6		02/02/24 10:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FB-2 **Lab ID: 92710886008** Collected: 01/31/24 14:15 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/02/24 10:25	02/10/24 12:34	7440-09-7	
Iron	ND	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 05:24	7439-89-6	
Sodium	ND	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 05:24	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 05:24	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 05:24	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	0.00054	1	02/02/24 09:55	02/02/24 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:31	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:31	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/02/24 09:55	02/06/24 16:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:31	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	02/13/24 10:30	02/13/24 15:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 12:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 12:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/06/24 12:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/02/24 01:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 01:47	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FB-2 **Lab ID: 92710886008** Collected: 01/31/24 14:15 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/02/24 01:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-2 **Lab ID: 92710886009** Collected: 02/01/24 10:40 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.4**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 05:35	7440-09-7	
Calcium	**33.3**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 05:35	7440-70-2	
Iron	**0.19**	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 22:46	7439-89-6	
Sodium	**9.2**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 22:46	7440-23-5	
Magnesium	**7.4**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 22:46	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	0.00054	1	02/03/24 09:19	02/07/24 14:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 14:16	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 14:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/07/24 14:16	7440-41-7	
Boron	**0.37**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 14:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 14:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 14:16	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 14:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 14:16	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 14:16	7439-93-2	
Molybdenum	**0.0024J**	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 14:16	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 14:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 14:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:45	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**45.5**	mg/L	5.0	5.0	1		02/06/24 18:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 18:28		
Alkalinity, Total as CaCO3	**45.5**	mg/L	5.0	5.0	1		02/06/24 18:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**220**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.9**	mg/L	1.0	0.60	1		02/04/24 01:54	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		02/04/24 01:54	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-2 **Lab ID: 92710886009** Collected: 02/01/24 10:40 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**97.6**	mg/L	1.0	0.50	1		02/04/24 01:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-4 **Lab ID: 92710886010** Collected: 02/01/24 12:15 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**10.7**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 05:39	7440-09-7	
Calcium	**268**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 05:39	7440-70-2	M1
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 22:51	7439-89-6	
Sodium	**57.2**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 22:51	7440-23-5	M1
Magnesium	**38.5**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 22:51	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0028J**	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 14:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 14:33	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 14:33	7440-39-3	
Beryllium	**0.00039J**	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/07/24 14:33	7440-41-7	
Boron	**4.3**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 14:33	7440-42-8	
Cadmium	**0.00099**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 14:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 14:33	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 14:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 14:33	7439-92-1	
Lithium	**0.0038J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 14:33	7439-93-2	
Molybdenum	**0.0027J**	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 14:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 14:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 14:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**98.8**	mg/L	5.0	5.0	1		02/06/24 18:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 18:35		
Alkalinity, Total as CaCO3	**98.8**	mg/L	5.0	5.0	1		02/06/24 18:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1450**	mg/L	50.0	50.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.7**	mg/L	1.0	0.60	1		02/04/24 02:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/04/24 02:08	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-4 **Lab ID: 92710886010** Collected: 02/01/24 12:15 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**824**	mg/L	17.0	8.5	17		02/04/24 13:11	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-5 **Lab ID: 92710886011** Collected: 02/01/24 13:28 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.5**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:00	7440-09-7	
Calcium	**146**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:00	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:06	7439-89-6	
Sodium	**26.8**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 23:06	7440-23-5	
Magnesium	**26.1**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:06	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00068J**	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 14:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 14:37	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 14:37	7440-39-3	
Beryllium	**0.0075**	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/07/24 14:37	7440-41-7	
Boron	**2.5**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 14:37	7440-42-8	
Cadmium	**0.0012**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 14:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 14:37	7440-47-3	
Cobalt	**0.015**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 14:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 14:37	7439-92-1	
Lithium	**0.0075J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 14:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 14:37	7439-98-7	
Selenium	**0.0017J**	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 14:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 14:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00024**	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 15:56	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.6**	mg/L	5.0	5.0	1		02/06/24 18:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 18:46		
Alkalinity, Total as CaCO3	**5.6**	mg/L	5.0	5.0	1		02/06/24 18:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**948**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.6**	mg/L	1.0	0.60	1		02/04/24 02:23	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/04/24 02:23	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-5 **Lab ID: 92710886011** Collected: 02/01/24 13:28 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**539**	mg/L	11.0	5.5	11		02/04/24 13:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-8 **Lab ID: 92710886012** Collected: 02/01/24 14:38 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:11	7439-89-6	
Sodium	**12.7**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 23:11	7440-23-5	
Magnesium	**15.8**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:11	7439-95-4	
Potassium	**4.2**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:05	7440-09-7	
Calcium	**30.6**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 14:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 14:41	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 14:41	7440-39-3	
Beryllium	**0.0010**	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/07/24 14:41	7440-41-7	
Boron	**0.69**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 14:41	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 14:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 14:41	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 14:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 14:41	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 14:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 14:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 14:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 14:41	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	02/13/24 10:30	02/13/24 15:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**7.3**	mg/L	5.0	5.0	1		02/06/24 18:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 18:51		
Alkalinity, Total as CaCO3	**7.3**	mg/L	5.0	5.0	1		02/06/24 18:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**272**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		02/04/24 02:38	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		02/04/24 02:38	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-8 **Lab ID: 92710886012** Collected: 02/01/24 14:38 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**138**	mg/L	3.0	1.5	3		02/04/24 13:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-11 **Lab ID: 92710886013** Collected: 02/01/24 14:48 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:16	7439-89-6	
Sodium	**20.5**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 23:16	7440-23-5	
Magnesium	**27.8**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:16	7439-95-4	
Potassium	**4.3**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:09	7440-09-7	
Calcium	**55.1**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:09	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 14:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 14:45	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 14:45	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/07/24 14:45	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 14:45	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 14:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 14:45	7440-47-3	
Cobalt	**0.00082J**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 14:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 14:45	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 14:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 14:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 14:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 14:45	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	02/13/24 10:30	02/13/24 16:01	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.4**	mg/L	5.0	5.0	1		02/06/24 18:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 18:56		
Alkalinity, Total as CaCO3	**15.4**	mg/L	5.0	5.0	1		02/06/24 18:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**463**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.1**	mg/L	1.0	0.60	1		02/04/24 02:53	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/04/24 02:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-11 **Lab ID: 92710886013** Collected: 02/01/24 14:48 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**260**	mg/L	6.0	3.0	6		02/04/24 13:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-19 **Lab ID: 92710886014** Collected: 02/01/24 14:38 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.5**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:24	7440-09-7	
Calcium	**113**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:24	7440-70-2	
Iron	**0.087**	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:30	7439-89-6	
Sodium	**40.5**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 23:30	7440-23-5	
Magnesium	**11.4**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:30	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:04	7440-36-0	
Arsenic	**0.00088J**	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:04	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/08/24 15:16	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/08/24 15:16	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:04	7440-42-8	
Cadmium	**0.00029J**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:04	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:04	7440-47-3	
Cobalt	**0.056**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 15:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 15:04	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:04	7439-98-7	
Selenium	**0.0051**	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:04	7782-49-2	
Thallium	**0.00057J**	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 15:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 16:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 19:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 19:12		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/06/24 19:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**656**	mg/L	25.0	25.0	1		02/06/24 13:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.2**	mg/L	1.0	0.60	1		02/04/24 03:37	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.050	1		02/04/24 03:37	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-19 **Lab ID: 92710886014** Collected: 02/01/24 14:38 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**394**	mg/L	8.0	4.0	8		02/04/24 14:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-20 **Lab ID: 92710886015** Collected: 02/01/24 13:10 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.20	0.13	5	02/03/24 10:20	02/18/24 17:34	7439-89-6	D3
Potassium	**13.7**	mg/L	2.5	0.76	5	02/03/24 10:20	02/18/24 17:34	7440-09-7	
Sodium	**19.5**	mg/L	5.0	2.9	5	02/03/24 10:20	02/18/24 17:34	7440-23-5	CH
Calcium	**112**	mg/L	5.0	0.61	5	02/03/24 10:20	02/18/24 17:34	7440-70-2	
Magnesium	**23.1**	mg/L	0.25	0.059	5	02/03/24 10:20	02/18/24 17:34	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:08	7440-36-0	
Arsenic	**0.025**	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:08	7440-38-2	
Barium	**0.015J**	mg/L	0.050	0.0047	10	02/03/24 09:19	02/08/24 15:36	7440-39-3	D3
Beryllium	**0.0078**	mg/L	0.0050	0.00094	10	02/03/24 09:19	02/08/24 15:36	7440-41-7	
Boron	**2.7**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:08	7440-42-8	
Cadmium	**0.0030**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:08	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:08	7440-47-3	
Cobalt	**1.3**	mg/L	0.050	0.0032	10	02/03/24 09:19	02/07/24 16:51	7440-48-4	
Lead	ND	mg/L	0.010	0.0016	10	02/03/24 09:19	02/07/24 16:51	7439-92-1	D3
Lithium	**0.012J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:08	7439-98-7	
Selenium	**0.082**	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:08	7782-49-2	
Thallium	ND	mg/L	0.010	0.0038	10	02/03/24 09:19	02/07/24 16:51	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	02/13/24 10:30	02/13/24 16:07	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 19:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 19:17		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/06/24 19:17		M1
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1050**	mg/L	50.0	50.0	1		02/06/24 13:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**27.2**	mg/L	1.0	0.60	1		02/04/24 03:52	16887-00-6	
Fluoride	**1.4**	mg/L	0.10	0.050	1		02/04/24 03:52	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-20 **Lab ID: 92710886015** Collected: 02/01/24 13:10 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**628**	mg/L	13.0	6.5	13		02/04/24 14:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-EB-2 **Lab ID: 92710886016** Collected: 02/01/24 15:20 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:34	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/03/24 10:20	02/08/24 06:34	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:34	7440-70-2	
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:40	7439-89-6	
Magnesium	ND	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 15:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/08/24 15:05	7440-41-7	
Boron	**0.035J**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 15:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 15:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 15:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 16:09	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 19:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 19:55		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/06/24 19:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/06/24 13:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/03/24 13:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/03/24 13:48	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-EB-2 **Lab ID: 92710886016** Collected: 02/01/24 15:20 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/03/24 13:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-EB-3 **Lab ID: 92710886017** Collected: 02/01/24 15:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:45	7439-89-6	
Magnesium	ND	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:45	7439-95-4	
Potassium	ND	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:39	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/03/24 10:20	02/08/24 06:39	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:16	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 15:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/08/24 15:09	7440-41-7	
Boron	**0.013J**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 15:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 15:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 15:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 16:12	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 21:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 21:59		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/06/24 21:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/06/24 13:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/04/24 04:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/04/24 04:37	16984-48-8	M1,R1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-EB-3 **Lab ID: 92710886017** Collected: 02/01/24 15:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/04/24 04:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FB-3 **Lab ID: 92710886018** Collected: 02/01/24 12:15 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:50	7439-89-6	
Magnesium	ND	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:50	7439-95-4	
Potassium	ND	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:44	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/03/24 10:20	02/08/24 06:44	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/07/24 15:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/08/24 15:12	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 15:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 15:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 15:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 16:14	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 22:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 22:04		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/06/24 22:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/06/24 13:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/04/24 05:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/04/24 05:21	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-AP234-FB-3 **Lab ID: 92710886018** Collected: 02/01/24 12:15 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/04/24 05:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-10 **Lab ID: 92710886019** Collected: 02/02/24 11:32 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:55	7439-89-6	
Sodium	**11.3**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 23:55	7440-23-5	
Magnesium	**5.2**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:55	7439-95-4	
Potassium	**4.7**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:48	7440-09-7	
Calcium	**79.3**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:48	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:25	7440-36-0	
Arsenic	**0.0063**	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:25	7440-38-2	
Barium	**0.018J**	mg/L	0.025	0.0023	5	02/03/24 09:19	02/08/24 15:24	7440-39-3	D3
Beryllium	**0.0069**	mg/L	0.0025	0.00047	5	02/03/24 09:19	02/08/24 15:24	7440-41-7	
Boron	**0.17**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:25	7440-42-8	
Cadmium	**0.00039J**	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:25	7440-47-3	
Cobalt	**0.064**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 15:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.00082	5	02/03/24 09:19	02/08/24 15:24	7439-92-1	D3
Lithium	**0.0042J**	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:25	7439-98-7	
Selenium	**0.031**	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:25	7782-49-2	
Thallium	ND	mg/L	0.0050	0.0019	5	02/03/24 09:19	02/08/24 15:24	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	02/13/24 10:30	02/13/24 16:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/24 19:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/24 19:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/07/24 19:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**548**	mg/L	25.0	25.0	1		02/06/24 13:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:26	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.2**	mg/L	1.0	0.60	1		02/04/24 05:36	16887-00-6	
Fluoride	**1.2**	mg/L	0.10	0.050	1		02/04/24 05:36	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-10 **Lab ID: 92710886019** Collected: 02/02/24 11:32 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**336**	mg/L	7.0	3.5	7		02/04/24 14:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-12 **Lab ID: 92710886020** Collected: 02/02/24 11:51 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**22.8**	mg/L	0.040	0.025	1	02/03/24 10:20	02/10/24 23:59	7439-89-6	
Sodium	**9.2**	mg/L	1.0	0.58	1	02/03/24 10:20	02/10/24 23:59	7440-23-5	
Magnesium	**18.1**	mg/L	0.050	0.012	1	02/03/24 10:20	02/10/24 23:59	7439-95-4	
Potassium	**9.9**	mg/L	0.50	0.15	1	02/03/24 10:20	02/08/24 06:53	7440-09-7	
Calcium	**31.7**	mg/L	1.0	0.12	1	02/03/24 10:20	02/08/24 06:53	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:19	02/07/24 15:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:19	02/07/24 15:29	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	02/03/24 09:19	02/08/24 15:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:19	02/08/24 15:20	7440-41-7	
Boron	**0.41**	mg/L	0.040	0.012	1	02/03/24 09:19	02/07/24 15:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:19	02/07/24 15:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:19	02/07/24 15:29	7440-47-3	
Cobalt	**0.015**	mg/L	0.0050	0.00032	1	02/03/24 09:19	02/07/24 15:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:19	02/07/24 15:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 09:19	02/07/24 15:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:19	02/07/24 15:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:19	02/07/24 15:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:19	02/07/24 15:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/13/24 10:30	02/13/24 16:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**51.1**	mg/L	5.0	5.0	1		02/08/24 23:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:34		
Alkalinity, Total as CaCO3	**51.1**	mg/L	5.0	5.0	1		02/08/24 23:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**274**	mg/L	25.0	25.0	1		02/06/24 13:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		02/04/24 05:51	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/04/24 05:51	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-12 **Lab ID: 92710886020** Collected: 02/02/24 11:51 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**134**	mg/L	3.0	1.5	3		02/04/24 15:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-17 **Lab ID: 92710886021** Collected: 02/06/24 10:01 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.21**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 23:08	7439-89-6	
Potassium	**3.8**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 23:08	7440-09-7	
Sodium	**17.5**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 23:08	7440-23-5	
Calcium	**19.7**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 23:08	7440-70-2	
Magnesium	**55.4**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 23:08	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	0.00054	1	02/08/24 13:07	02/16/24 14:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:36	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:36	7440-39-3	
Beryllium	**0.00058**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:36	7440-41-7	
Boron	**0.93**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:36	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:36	7440-43-9	
Chromium	**0.0029J**	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:36	7440-47-3	
Cobalt	**0.018**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:36	7439-98-7	
Selenium	**0.0081**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 14:36	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	02/15/24 13:00	02/15/24 16:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.5**	mg/L	5.0	5.0	1		02/08/24 23:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:41		
Alkalinity, Total as CaCO3	**5.5**	mg/L	5.0	5.0	1		02/08/24 23:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**477**	mg/L	25.0	25.0	1		02/09/24 17:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.0**	mg/L	1.0	0.60	1		02/08/24 01:50	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/08/24 01:50	16984-48-8	M1

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-17 **Lab ID: 92710886021** Collected: 02/06/24 10:01 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**261**	mg/L	6.0	3.0	6		02/08/24 07:57	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-47 **Lab ID: 92710886022** Collected: 02/05/24 10:35 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.5**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 23:13	7439-89-6	
Potassium	**5.3**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 23:13	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 23:13	7440-23-5	
Calcium	**23.9**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 23:13	7440-70-2	
Magnesium	**6.9**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 23:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 14:40	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:40	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:40	7440-39-3	
Beryllium	**0.0074**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:40	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:40	7440-42-8	
Cadmium	**0.0011**	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:40	7440-47-3	
Cobalt	**0.18**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:40	7440-48-4	
Lead	**0.00029J**	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:40	7439-92-1	
Lithium	**0.046**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:40	7439-98-7	
Selenium	**0.0032J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 14:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 16:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:46		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/24 23:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**253**	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.2**	mg/L	1.0	0.60	1		02/08/24 02:34	16887-00-6	
Fluoride	**0.53**	mg/L	0.10	0.050	1		02/08/24 02:34	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-47 **Lab ID: 92710886022** Collected: 02/05/24 10:35 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**118**	mg/L	3.0	1.5	3		02/08/24 08:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-48 **Lab ID: 92710886023** Collected: 02/05/24 12:55 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.8**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 23:18	7439-89-6	
Potassium	**13.5**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 23:18	7440-09-7	
Sodium	**18.7**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 23:18	7440-23-5	
Calcium	**61.7**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 23:18	7440-70-2	
Magnesium	**14.1**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 23:18	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 14:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:44	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:44	7440-39-3	
Beryllium	**0.0055**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:44	7440-41-7	
Boron	**0.46**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:44	7440-42-8	
Cadmium	**0.0022**	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:44	7440-47-3	
Cobalt	**0.27**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:44	7440-48-4	
Lead	**0.00077J**	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:44	7439-92-1	
Lithium	**0.083**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:44	7439-98-7	
Selenium	**0.0017J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 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	02/15/24 13:00	02/15/24 17:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:49		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/24 23:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**496**	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:36	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/08/24 02:49	16887-00-6	
Fluoride	**0.43**	mg/L	0.10	0.050	1		02/08/24 02:49	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-48 **Lab ID: 92710886023** Collected: 02/05/24 12:55 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**258**	mg/L	6.0	3.0	6		02/08/24 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-15 **Lab ID: 92710886024** Collected: 02/05/24 10:53 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.11**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 23:23	7439-89-6	
Potassium	**4.3**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 23:23	7440-09-7	
Sodium	**19.2**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 23:23	7440-23-5	
Calcium	**32.8**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 23:23	7440-70-2	
Magnesium	**13.6**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 23:23	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 14:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:47	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:47	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:47	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:47	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:47	7439-98-7	
Selenium	**0.0010J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 14:47	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	02/15/24 13:00	02/15/24 17:05	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.6**	mg/L	5.0	5.0	1		02/08/24 23:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:52		
Alkalinity, Total as CaCO3	**17.6**	mg/L	5.0	5.0	1		02/08/24 23:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**288**	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.4**	mg/L	1.0	0.60	1		02/08/24 03:04	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		02/08/24 03:04	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-15 **Lab ID: 92710886024** Collected: 02/05/24 10:53 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**124**	mg/L	3.0	1.5	3		02/08/24 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-14 **Lab ID: 92710886025** Collected: 02/05/24 09:22 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.062**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 23:28	7439-89-6	
Potassium	**3.4**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 23:28	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 23:28	7440-23-5	
Calcium	**12.7**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 23:28	7440-70-2	
Magnesium	**5.0**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 23:28	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 14:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:51	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:51	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:51	7439-92-1	
Lithium	**0.0046J**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:51	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 14:51	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	02/15/24 13:00	02/15/24 17:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.2**	mg/L	5.0	5.0	1		02/08/24 23:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 23:58		
Alkalinity, Total as CaCO3	**16.2**	mg/L	5.0	5.0	1		02/08/24 23:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**127**	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:37	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.7**	mg/L	1.0	0.60	1		02/08/24 03:18	16887-00-6	
Fluoride	**0.054J**	mg/L	0.10	0.050	1		02/08/24 03:18	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Sample: MCD-DGWC-14 **Lab ID: 92710886025** Collected: 02/05/24 09:22 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**44.0**	mg/L	1.0	0.50	1		02/08/24 03:18	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829488
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886001, 92710886002

METHOD BLANK: 4287316 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/06/24 01:47	
Iron	mg/L	ND	0.040	0.025	02/06/24 01:47	
Magnesium	mg/L	ND	0.050	0.012	02/06/24 01:47	
Potassium	mg/L	ND	0.50	0.15	02/06/24 01:47	
Sodium	mg/L	ND	1.0	0.58	02/06/24 01:47	

LABORATORY CONTROL SAMPLE: 4287317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	
Iron	mg/L	1	0.98	98	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287318 4287319

Parameter	Units	92710944002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	140	1	1	137	137	-336	-322	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.90	0.86	90	86	75-125	5	20	
Magnesium	mg/L	26.0	1	1	26.3	26.2	34	26	75-125	0	20	M1
Potassium	mg/L	6.6	1	1	7.5	7.5	86	90	75-125	0	20	
Sodium	mg/L	29.2	1	1	30.2	30.2	95	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829702
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

METHOD BLANK: 4288119 Matrix: Water
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/07/24 02:24	
Iron	mg/L	ND	0.040	0.025	02/07/24 02:24	
Magnesium	mg/L	ND	0.050	0.012	02/07/24 02:24	
Potassium	mg/L	ND	0.50	0.15	02/10/24 11:07	
Sodium	mg/L	ND	1.0	0.58	02/07/24 02:24	

LABORATORY CONTROL SAMPLE: 4288120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	1.1	109	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288121 4288122

Parameter	Units	92710939004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	76.6	1	1	79.0	72.5	242	-409	75-125	9	20	M1
Iron	mg/L	11.3	1	1	13.1	12.7	176	140	75-125	3	20	M1
Magnesium	mg/L	19.7	1	1	21.1	19.2	144	-46	75-125	9	20	M1
Potassium	mg/L	2.3	1	1	3.5	3.4	125	109	75-125	4	20	
Sodium	mg/L	11.6	1	1	12.8	11.7	128	12	75-125	10	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829907
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

METHOD BLANK: 4289499 Matrix: Water
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/08/24 05:25	
Iron	mg/L	ND	0.040	0.025	02/10/24 22:36	
Magnesium	mg/L	ND	0.050	0.012	02/10/24 22:36	
Potassium	mg/L	ND	0.50	0.15	02/08/24 05:25	
Sodium	mg/L	ND	1.0	0.58	02/08/24 05:25	

LABORATORY CONTROL SAMPLE: 4289500

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	1.0	103	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289501 4289502

Parameter	Units	92710886010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	268	1	1	269	261	86	-694	75-125	3	20	M1
Iron	mg/L	ND	1	1	0.94	0.91	94	91	75-125	3	20	
Magnesium	mg/L	38.5	1	1	39.0	38.2	49	-26	75-125	2	20	M1
Potassium	mg/L	10.7	1	1	12.0	11.6	125	82	75-125	4	20	
Sodium	mg/L	57.2	1	1	57.8	57.2	64	0	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830786
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4293962 Matrix: Water
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/19/24 21:45	
Iron	mg/L	ND	0.040	0.025	02/19/24 21:45	
Magnesium	mg/L	ND	0.050	0.012	02/19/24 21:45	
Potassium	mg/L	ND	0.50	0.15	02/19/24 21:45	
Sodium	mg/L	ND	1.0	0.58	02/19/24 21:45	

LABORATORY CONTROL SAMPLE: 4293963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293964 4293965

Parameter	Units	92710944017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	118	1	1	111	114	-740	-453	75-125	3	20	M1
Iron	mg/L	0.086	1	1	1.0	1.1	94	100	75-125	6	20	
Magnesium	mg/L	40.8	1	1	38.2	38.8	-255	-197	75-125	1	20	M1
Potassium	mg/L	11.5	1	1	11.5	11.7	5	22	75-125	1	20	M1
Sodium	mg/L	29.0	1	1	27.2	27.4	-179	-152	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829343
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886001, 92710886002

METHOD BLANK: 4286710 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/01/24 18:02	
Arsenic	mg/L	ND	0.0050	0.00084	02/01/24 18:02	
Barium	mg/L	ND	0.0050	0.00047	02/01/24 18:02	
Beryllium	mg/L	ND	0.00050	0.000094	02/01/24 18:02	
Boron	mg/L	ND	0.040	0.012	02/01/24 18:02	
Cadmium	mg/L	ND	0.00050	0.00010	02/01/24 18:02	
Chromium	mg/L	ND	0.0050	0.0019	02/01/24 18:02	
Cobalt	mg/L	ND	0.0050	0.00032	02/01/24 18:02	
Lead	mg/L	ND	0.0010	0.00016	02/01/24 18:02	
Lithium	mg/L	ND	0.030	0.0016	02/01/24 18:02	
Molybdenum	mg/L	ND	0.010	0.00062	02/01/24 18:02	
Selenium	mg/L	ND	0.0050	0.00096	02/01/24 18:02	
Thallium	mg/L	ND	0.0010	0.00038	02/01/24 18:02	

LABORATORY CONTROL SAMPLE: 4286711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 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	0.096	98	96	75-125	2	20	
Arsenic	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-234 Well Network
Pace Project No.: 92710886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.020	0.1	0.1	0.12	0.11	98	93	75-125	5	20	
Beryllium	mg/L	0.0013	0.1	0.1	0.099	0.099	98	97	75-125	0	20	
Boron	mg/L	1.6	1	1	2.5	2.4	93	84	75-125	4	20	
Cadmium	mg/L	0.00046J	0.1	0.1	0.10	0.099	103	99	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	3	20	
Cobalt	mg/L	0.0022J	0.1	0.1	0.11	0.10	105	101	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20	
Lithium	mg/L	0.0047J	0.1	0.1	0.10	0.10	99	99	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	4	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.10	0.096	99	94	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.091	96	91	75-125	6	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829689
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

METHOD BLANK: 4288084 Matrix: Water
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/02/24 17:03	
Arsenic	mg/L	ND	0.0050	0.00084	02/02/24 17:03	
Barium	mg/L	ND	0.0050	0.00047	02/02/24 17:03	
Beryllium	mg/L	ND	0.00050	0.000094	02/02/24 17:03	
Boron	mg/L	ND	0.040	0.012	02/02/24 17:03	
Cadmium	mg/L	ND	0.00050	0.00010	02/02/24 17:03	
Chromium	mg/L	ND	0.0050	0.0019	02/02/24 17:03	
Cobalt	mg/L	ND	0.0050	0.00032	02/02/24 17:03	
Lead	mg/L	ND	0.0010	0.00016	02/02/24 17:03	
Lithium	mg/L	ND	0.030	0.0016	02/02/24 17:03	
Molybdenum	mg/L	ND	0.010	0.00062	02/02/24 17:03	
Selenium	mg/L	ND	0.0050	0.00096	02/02/24 17:03	
Thallium	mg/L	ND	0.0010	0.00038	02/02/24 17:03	

LABORATORY CONTROL SAMPLE: 4288085

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	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.11	108	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 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	0.10	0.11	100	106	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	107	111	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.019	0.1	0.1	0.12	0.13	102	106	75-125	3	20	
Beryllium	mg/L	0.0011	0.1	0.1	0.091	0.096	90	95	75-125	5	20	
Boron	mg/L	1.2	1	1	2.1	2.2	83	94	75-125	5	20	
Cadmium	mg/L	0.00041J	0.1	0.1	0.099	0.11	99	105	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Cobalt	mg/L	0.00068J	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.094	90	94	75-125	4	20	
Lithium	mg/L	0.0037J	0.1	0.1	0.095	0.10	91	96	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.11	0.11	107	110	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.097	93	97	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829901
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

METHOD BLANK: 4289482 Matrix: Water
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/07/24 14:08	
Arsenic	mg/L	ND	0.0050	0.00084	02/07/24 14:08	
Barium	mg/L	ND	0.0050	0.00047	02/07/24 14:08	
Beryllium	mg/L	ND	0.00050	0.000094	02/07/24 14:08	
Boron	mg/L	ND	0.040	0.012	02/07/24 14:08	
Cadmium	mg/L	ND	0.00050	0.00010	02/07/24 14:08	
Chromium	mg/L	ND	0.0050	0.0019	02/07/24 14:08	
Cobalt	mg/L	ND	0.0050	0.00032	02/07/24 14:08	
Lead	mg/L	ND	0.0010	0.00016	02/07/24 14:08	
Lithium	mg/L	ND	0.030	0.0016	02/07/24 14:08	
Molybdenum	mg/L	ND	0.010	0.00062	02/07/24 14:08	
Selenium	mg/L	ND	0.0050	0.00096	02/07/24 14:08	
Thallium	mg/L	ND	0.0010	0.00038	02/07/24 14:08	

LABORATORY CONTROL SAMPLE: 4289483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.096	96	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	0.97	97	80-120	
Cadmium	mg/L	0.1	0.099	99	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	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289484 4289485

Parameter	Units	92710886009 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	0.11	98	108	75-125	10	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289484 4289485

Parameter	Units	92710886009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	2	20	
Barium	mg/L	0.024	0.1	0.1	0.12	0.14	98	112	75-125	11	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.094	89	94	75-125	6	20	
Boron	mg/L	0.37	1	1	1.3	1.3	89	96	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	4	20	
Cobalt	mg/L	0.0027J	0.1	0.1	0.10	0.10	97	102	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	5	20	
Lithium	mg/L	0.017J	0.1	0.1	0.11	0.11	93	98	75-125	5	20	
Molybdenum	mg/L	0.0024J	0.1	0.1	0.099	0.11	96	106	75-125	10	20	
Selenium	mg/L	0.0014J	0.1	0.1	0.098	0.10	97	101	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.10	96	101	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830823
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4294179 Matrix: Water
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/16/24 13:29	
Arsenic	mg/L	ND	0.0050	0.00084	02/16/24 13:29	
Barium	mg/L	ND	0.0050	0.00047	02/16/24 13:29	
Beryllium	mg/L	ND	0.00050	0.000094	02/16/24 13:29	
Boron	mg/L	ND	0.040	0.012	02/16/24 13:29	
Cadmium	mg/L	ND	0.00050	0.00010	02/16/24 13:29	
Chromium	mg/L	ND	0.0050	0.0019	02/16/24 13:29	
Cobalt	mg/L	ND	0.0050	0.00032	02/16/24 13:29	
Lead	mg/L	ND	0.0010	0.00016	02/16/24 13:29	
Lithium	mg/L	ND	0.030	0.0016	02/16/24 13:29	
Molybdenum	mg/L	ND	0.010	0.00062	02/16/24 13:29	
Selenium	mg/L	ND	0.0050	0.00096	02/16/24 13:29	
Thallium	mg/L	ND	0.0010	0.00038	02/16/24 13:29	

LABORATORY CONTROL SAMPLE: 4294180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	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	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294181 4294182

Parameter	Units	92710944024 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	0.11	0.11	107	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294181 4294182

Parameter	Units	92710944024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.012J	1	1	0.99	1.0	98	101	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.096	98	96	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	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	0.10	0.10	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 831795
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886001, 92710886002, 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008, 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

METHOD BLANK: 4298754 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002, 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008, 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/13/24 15:06	

LABORATORY CONTROL SAMPLE: 4298755

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: 4298756 4298757

Parameter	Units	92710886001 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	0.0020	93	78	75-125	18	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 832524 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4302186 Matrix: Water
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/24 16:28	

LABORATORY CONTROL SAMPLE: 4302187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4302188 4302189

Parameter	Units	92710944019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830057
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886001, 92710886002

METHOD BLANK: 4289992 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/05/24 12:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 12:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 12:18	

LABORATORY CONTROL SAMPLE: 4289993

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: 4289994

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: 4289995 4289996

Parameter	Units	92711030010 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	17.9	50	50	69.6	68.3	104	101	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289997 4289998

Parameter	Units	92711030011 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	17.5	50	50	70.1	68.5	105	102	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830058 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006

METHOD BLANK: 4289999 Matrix: Water
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/05/24 15:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 15:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 15:37	

LABORATORY CONTROL SAMPLE: 4290000

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: 4290001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290002 4290003

Parameter	Units	92710958001 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	47.1	50	50	94.7	95.1	95	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290004 4290005

Parameter	Units	92710968001 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	66.5	50	50	117	119	102	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830244
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886007, 92710886008

METHOD BLANK: 4290878 Matrix: Water
Associated Lab Samples: 92710886007, 92710886008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 11:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 11:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 11:42	

LABORATORY CONTROL SAMPLE: 4290879

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: 4290880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290881 4290882

Parameter	Units	92711015015 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	157	50	50	201	198	87	82	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290883 4290884

Parameter	Units	92711015019 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	50.7	50.7	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830324
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016

METHOD BLANK: 4291303 Matrix: Water
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 16:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 16:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 16:22	

LABORATORY CONTROL SAMPLE: 4291304

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: 4291305

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: 4291306 4291307

Parameter	Units	92710886015 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	41.3	39.7	83	79	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4291308 4291309

Parameter	Units	92710886016 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	51.1	50.9	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830412
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886017, 92710886018

METHOD BLANK: 4291899 Matrix: Water
Associated Lab Samples: 92710886017, 92710886018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 20:48	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 20:48	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 20:48	

LABORATORY CONTROL SAMPLE: 4291900

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: 4291901

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: 4291902 4291903

Parameter	Units	92710944013 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	14.4	50	50	65.9	65.7	103	103	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4291904 4291905

Parameter	Units	92710944014 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	34.4	50	50	84.4	84.6	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830623
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886019

METHOD BLANK: 4293114 Matrix: Water
Associated Lab Samples: 92710886019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/07/24 16:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/24 16:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/24 16:43	

LABORATORY CONTROL SAMPLE: 4293115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

LABORATORY CONTROL SAMPLE: 4293116

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: 4293117 4293118

Parameter	Units	92710886019 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	41.9	42.2	84	84	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293286 4293287

Parameter	Units	92711669003 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	180	50	50	224	221	88	82	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 831094 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886020, 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4295407 Matrix: Water
Associated Lab Samples: 92710886020, 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/24 23:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/24 23:16	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/24 23:16	

LABORATORY CONTROL SAMPLE: 4295408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4295409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295410 4295411

Parameter	Units	92712026015 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	15.5	50	50	66.2	66.1	101	101	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295412 4295413

Parameter	Units	92712026016 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	133	50	50	177	176	89	86	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829339
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886001, 92710886002

METHOD BLANK: 4286695 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/01/24 11:52	

LABORATORY CONTROL SAMPLE: 4286696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4286697

Parameter	Units	92711023001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27.0	27.0	0	25	

SAMPLE DUPLICATE: 4286698

Parameter	Units	92710944003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	136	12	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829971 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

METHOD BLANK: 4289656 Matrix: Water
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/24 12:59	

LABORATORY CONTROL SAMPLE: 4289657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	242	97	90-110	

SAMPLE DUPLICATE: 4289659

Parameter	Units	92710886003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	503	535	6	25	

SAMPLE DUPLICATE: 4289660

Parameter	Units	92710939004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	387	386	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829973 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013

METHOD BLANK: 4289665 Matrix: Water
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/24 12:45	

LABORATORY CONTROL SAMPLE: 4289666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	270	108	90-110	

SAMPLE DUPLICATE: 4289667

Parameter	Units	92711015015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	445	445	0	25	

SAMPLE DUPLICATE: 4289668

Parameter	Units	92710944010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	212	212	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830240 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

METHOD BLANK: 4290871 Matrix: Water
Associated Lab Samples: 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/06/24 13:37	

LABORATORY CONTROL SAMPLE: 4290872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	248	99	90-110	

SAMPLE DUPLICATE: 4290873

Parameter	Units	92710886014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	656	665	1	25	

SAMPLE DUPLICATE: 4290874

Parameter	Units	92711663003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	48.0	6	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830915 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4294386 Matrix: Water
Associated Lab Samples: 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/08/24 13:39	

LABORATORY CONTROL SAMPLE: 4294387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	268	107	90-110	

SAMPLE DUPLICATE: 4294389

Parameter	Units	92710944022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	864	886	3	25	

SAMPLE DUPLICATE: 4300660

Parameter	Units	92711928002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	953	929	3	25	H1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 831333
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886021

METHOD BLANK: 4296466 Matrix: Water
Associated Lab Samples: 92710886021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/09/24 17:34	

LABORATORY CONTROL SAMPLE: 4296467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 4296468

Parameter	Units	92711015024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1490	1520	2	25	

SAMPLE DUPLICATE: 4296469

Parameter	Units	92711696002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	198	203	2	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829293
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886001, 92710886002

METHOD BLANK: 4286594 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/01/24 06:20	

LABORATORY CONTROL SAMPLE: 4286595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286596 4286597

Parameter	Units	92710443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.49	96	97	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286598 4286599

Parameter	Units	92710968002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.52	103	103	80-120	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829632 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

METHOD BLANK: 4287991 Matrix: Water
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/03/24 06:11	

LABORATORY CONTROL SAMPLE: 4287992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287993 4287994

Parameter	Units	92710944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.47	97	93	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287995 4287996

Parameter	Units	92710886003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.47	93	94	80-120	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830837
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886009

METHOD BLANK: 4294225 Matrix: Water
Associated Lab Samples: 92710886009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/24 06:05	

LABORATORY CONTROL SAMPLE: 4294226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294227 4294228

Parameter	Units	92711015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	102	107	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294229 4294230

Parameter	Units	92710944006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.48	94	96	80-120	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830839
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

METHOD BLANK: 4294234 Matrix: Water
Associated Lab Samples: 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016, 92710886017, 92710886018, 92710886019, 92710886020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/24 06:18	

LABORATORY CONTROL SAMPLE: 4294235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294236 4294237

Parameter	Units	92710886010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.45	0.48	90	95	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294238 4294239

Parameter	Units	92710944013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.50	98	100	80-120	3	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 831203
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4295980 Matrix: Water
Associated Lab Samples: 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/09/24 02:08	

LABORATORY CONTROL SAMPLE: 4295981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295982 4295983

Parameter	Units	92711015033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.52	96	104	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295984 4295985

Parameter	Units	92710944025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.48	97	96	80-120	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 831204
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886021

METHOD BLANK: 4295986 Matrix: Water
Associated Lab Samples: 92710886021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/09/24 02:40	

LABORATORY CONTROL SAMPLE: 4295987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.46	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295988 4295989

Parameter	Units	92711015027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	0.061J	0.5	0.5	0.58	0.54	104	96	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295990 4295991

Parameter	Units	92712201004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.53	100	105	80-120	5	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829251
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886001, 92710886002

METHOD BLANK: 4286390 Matrix: Water
Associated Lab Samples: 92710886001, 92710886002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/31/24 21:29	
Fluoride	mg/L	ND	0.10	0.050	01/31/24 21:29	
Sulfate	mg/L	ND	1.0	0.50	01/31/24 21:29	

LABORATORY CONTROL SAMPLE: 4286391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.9	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286392 4286393

Parameter	Units	92710726002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	36.6	50	50	78.9	80.2	85	87	90-110	2	10	M1
Fluoride	mg/L	0.90	2.5	2.5	2.7	2.8	73	76	90-110	3	10	M1
Sulfate	mg/L	178	50	50	226	228	96	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286394 4286395

Parameter	Units	92710939001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.5	50	50	52.6	53.3	88	90	90-110	1	10	M1
Fluoride	mg/L	0.078J	2.5	2.5	1.8	1.9	71	74	90-110	5	10	M1
Sulfate	mg/L	220	50	50	265	265	90	90	90-110	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829579
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

METHOD BLANK: 4287877 Matrix: Water
Associated Lab Samples: 92710886003, 92710886004, 92710886005, 92710886006, 92710886007, 92710886008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/01/24 23:04	
Fluoride	mg/L	ND	0.10	0.050	02/01/24 23:04	
Sulfate	mg/L	ND	1.0	0.50	02/01/24 23:04	

LABORATORY CONTROL SAMPLE: 4287878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287879 4287880

Parameter	Units	92711297001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	52.1	53.2	101	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	96	90-110	2	10	
Sulfate	mg/L	1.4	50	50	52.0	53.1	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287881 4287882

Parameter	Units	92710886004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.0	50	50	64.9	65.1	98	98	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	94	90-110	0	10	
Sulfate	mg/L	224	50	50	266	266	85	85	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829909
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016

METHOD BLANK: 4289509 Matrix: Water
Associated Lab Samples: 92710886009, 92710886010, 92710886011, 92710886012, 92710886013, 92710886014, 92710886015, 92710886016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/24 20:43	
Fluoride	mg/L	ND	0.10	0.050	02/03/24 20:43	
Sulfate	mg/L	ND	1.0	0.50	02/03/24 20:43	

LABORATORY CONTROL SAMPLE: 4289510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289511 4289512

Parameter	Units	92710944008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.9	50	50	79.7	80.5	101	103	90-110	1	10	
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	100	102	90-110	2	10	
Sulfate	mg/L	337	50	50	378	379	82	84	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289513 4289514

Parameter	Units	92710958002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	50	50	54.6	55.4	103	105	90-110	1	10	
Fluoride	mg/L	0.29	2.5	2.5	2.7	2.8	97	98	90-110	2	10	
Sulfate	mg/L	15.5	50	50	67.2	68.0	103	105	90-110	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 829910
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886017, 92710886018, 92710886019, 92710886020

METHOD BLANK: 4289515 Matrix: Water
Associated Lab Samples: 92710886017, 92710886018, 92710886019, 92710886020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/04/24 04:07	
Fluoride	mg/L	ND	0.10	0.050	02/04/24 04:07	
Sulfate	mg/L	ND	1.0	0.50	02/04/24 04:07	

LABORATORY CONTROL SAMPLE: 4289516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.1	98	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289517 4289518

Parameter	Units	92710886017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.8	52.0	104	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	2.6	120	105	90-110	13	10	M1,R1
Sulfate	mg/L	ND	50	50	51.9	51.8	103	103	90-110	0	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

QC Batch: 830748
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

METHOD BLANK: 4293725 Matrix: Water
Associated Lab Samples: 92710886021, 92710886022, 92710886023, 92710886024, 92710886025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/24 21:00	
Fluoride	mg/L	ND	0.10	0.050	02/07/24 21:00	
Sulfate	mg/L	ND	1.0	0.50	02/07/24 21:00	

LABORATORY CONTROL SAMPLE: 4293726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293727 4293728

Parameter	Units	92710944017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.9	50	50	59.3	60.9	101	104	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	107	109	90-110	2	10	
Sulfate	mg/L	433	50	50	479	480	91	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293729 4293730

Parameter	Units	92710886021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.0	50	50	68.8	69.9	102	104	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	3.1	3.0	122	117	90-110	4	10	M1
Sulfate	mg/L	261	50	50	303	306	85	90	90-110	1	10	M1

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QUALIFIERS

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

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

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710886001	**MCD-DGWC-42**	EPA 3010A	829488	EPA 6010D	829578
92710886002	**MCD-AP234-FD-2**	EPA 3010A	829488	EPA 6010D	829578
92710886003	**MCD-DGWC-21**	EPA 3010A	829702	EPA 6010D	829783
92710886004	**MCD-DGWC-22**	EPA 3010A	829702	EPA 6010D	829783
92710886005	**MCD-DGWC-23**	EPA 3010A	829702	EPA 6010D	829783
92710886006	**MCD-DGWC-13**	EPA 3010A	829702	EPA 6010D	829783
92710886007	**MCD-AP234-FD-3**	EPA 3010A	829702	EPA 6010D	829783
92710886008	**MCD-AP234-FB-2**	EPA 3010A	829702	EPA 6010D	829783
92710886009	**MCD-DGWC-2**	EPA 3010A	829907	EPA 6010D	829936
92710886010	**MCD-DGWC-4**	EPA 3010A	829907	EPA 6010D	829936
92710886011	**MCD-DGWC-5**	EPA 3010A	829907	EPA 6010D	829936
92710886012	**MCD-DGWC-8**	EPA 3010A	829907	EPA 6010D	829936
92710886013	**MCD-DGWC-11**	EPA 3010A	829907	EPA 6010D	829936
92710886014	**MCD-DGWC-19**	EPA 3010A	829907	EPA 6010D	829936
92710886015	**MCD-DGWC-20**	EPA 3010A	829907	EPA 6010D	829936
92710886016	**MCD-AP234-EB-2**	EPA 3010A	829907	EPA 6010D	829936
92710886017	**MCD-AP234-EB-3**	EPA 3010A	829907	EPA 6010D	829936
92710886018	**MCD-AP234-FB-3**	EPA 3010A	829907	EPA 6010D	829936
92710886019	**MCD-DGWC-10**	EPA 3010A	829907	EPA 6010D	829936
92710886020	**MCD-DGWC-12**	EPA 3010A	829907	EPA 6010D	829936
92710886021	**MCD-DGWC-17**	EPA 3010A	830786	EPA 6010D	830817
92710886022	**MCD-DGWC-47**	EPA 3010A	830786	EPA 6010D	830817
92710886023	**MCD-DGWC-48**	EPA 3010A	830786	EPA 6010D	830817
92710886024	**MCD-DGWC-15**	EPA 3010A	830786	EPA 6010D	830817
92710886025	**MCD-DGWC-14**	EPA 3010A	830786	EPA 6010D	830817
92710886001	**MCD-DGWC-42**	EPA 3005A	829343	EPA 6020B	829504
92710886002	**MCD-AP234-FD-2**	EPA 3005A	829343	EPA 6020B	829504
92710886003	**MCD-DGWC-21**	EPA 3005A	829689	EPA 6020B	829819
92710886004	**MCD-DGWC-22**	EPA 3005A	829689	EPA 6020B	829819
92710886005	**MCD-DGWC-23**	EPA 3005A	829689	EPA 6020B	829819
92710886006	**MCD-DGWC-13**	EPA 3005A	829689	EPA 6020B	829819
92710886007	**MCD-AP234-FD-3**	EPA 3005A	829689	EPA 6020B	829819
92710886008	**MCD-AP234-FB-2**	EPA 3005A	829689	EPA 6020B	829819
92710886009	**MCD-DGWC-2**	EPA 3005A	829901	EPA 6020B	829946
92710886010	**MCD-DGWC-4**	EPA 3005A	829901	EPA 6020B	829946
92710886011	**MCD-DGWC-5**	EPA 3005A	829901	EPA 6020B	829946
92710886012	**MCD-DGWC-8**	EPA 3005A	829901	EPA 6020B	829946
92710886013	**MCD-DGWC-11**	EPA 3005A	829901	EPA 6020B	829946
92710886014	**MCD-DGWC-19**	EPA 3005A	829901	EPA 6020B	829946
92710886015	**MCD-DGWC-20**	EPA 3005A	829901	EPA 6020B	829946
92710886016	**MCD-AP234-EB-2**	EPA 3005A	829901	EPA 6020B	829946
92710886017	**MCD-AP234-EB-3**	EPA 3005A	829901	EPA 6020B	829946
92710886018	**MCD-AP234-FB-3**	EPA 3005A	829901	EPA 6020B	829946
92710886019	**MCD-DGWC-10**	EPA 3005A	829901	EPA 6020B	829946
92710886020	**MCD-DGWC-12**	EPA 3005A	829901	EPA 6020B	829946

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710886021	**MCD-DGWC-17**	EPA 3005A	830823	EPA 6020B	831155
92710886022	**MCD-DGWC-47**	EPA 3005A	830823	EPA 6020B	831155
92710886023	**MCD-DGWC-48**	EPA 3005A	830823	EPA 6020B	831155
92710886024	**MCD-DGWC-15**	EPA 3005A	830823	EPA 6020B	831155
92710886025	**MCD-DGWC-14**	EPA 3005A	830823	EPA 6020B	831155
92710886001	**MCD-DGWC-42**	EPA 7470A	831795	EPA 7470A	831898
92710886002	**MCD-AP234-FD-2**	EPA 7470A	831795	EPA 7470A	831898
92710886003	**MCD-DGWC-21**	EPA 7470A	831795	EPA 7470A	831898
92710886004	**MCD-DGWC-22**	EPA 7470A	831795	EPA 7470A	831898
92710886005	**MCD-DGWC-23**	EPA 7470A	831795	EPA 7470A	831898
92710886006	**MCD-DGWC-13**	EPA 7470A	831795	EPA 7470A	831898
92710886007	**MCD-AP234-FD-3**	EPA 7470A	831795	EPA 7470A	831898
92710886008	**MCD-AP234-FB-2**	EPA 7470A	831795	EPA 7470A	831898
92710886009	**MCD-DGWC-2**	EPA 7470A	831795	EPA 7470A	831898
92710886010	**MCD-DGWC-4**	EPA 7470A	831795	EPA 7470A	831898
92710886011	**MCD-DGWC-5**	EPA 7470A	831795	EPA 7470A	831898
92710886012	**MCD-DGWC-8**	EPA 7470A	831795	EPA 7470A	831898
92710886013	**MCD-DGWC-11**	EPA 7470A	831795	EPA 7470A	831898
92710886014	**MCD-DGWC-19**	EPA 7470A	831795	EPA 7470A	831898
92710886015	**MCD-DGWC-20**	EPA 7470A	831795	EPA 7470A	831898
92710886016	**MCD-AP234-EB-2**	EPA 7470A	831795	EPA 7470A	831898
92710886017	**MCD-AP234-EB-3**	EPA 7470A	831795	EPA 7470A	831898
92710886018	**MCD-AP234-FB-3**	EPA 7470A	831795	EPA 7470A	831898
92710886019	**MCD-DGWC-10**	EPA 7470A	831795	EPA 7470A	831898
92710886020	**MCD-DGWC-12**	EPA 7470A	831795	EPA 7470A	831898
92710886021	**MCD-DGWC-17**	EPA 7470A	832524	EPA 7470A	832657
92710886022	**MCD-DGWC-47**	EPA 7470A	832524	EPA 7470A	832657
92710886023	**MCD-DGWC-48**	EPA 7470A	832524	EPA 7470A	832657
92710886024	**MCD-DGWC-15**	EPA 7470A	832524	EPA 7470A	832657
92710886025	**MCD-DGWC-14**	EPA 7470A	832524	EPA 7470A	832657
92710886001	**MCD-DGWC-42**	SM 2320B-2011	830057		
92710886002	**MCD-AP234-FD-2**	SM 2320B-2011	830057		
92710886003	**MCD-DGWC-21**	SM 2320B-2011	830058		
92710886004	**MCD-DGWC-22**	SM 2320B-2011	830058		
92710886005	**MCD-DGWC-23**	SM 2320B-2011	830058		
92710886006	**MCD-DGWC-13**	SM 2320B-2011	830058		
92710886007	**MCD-AP234-FD-3**	SM 2320B-2011	830244		
92710886008	**MCD-AP234-FB-2**	SM 2320B-2011	830244		
92710886009	**MCD-DGWC-2**	SM 2320B-2011	830324		
92710886010	**MCD-DGWC-4**	SM 2320B-2011	830324		
92710886011	**MCD-DGWC-5**	SM 2320B-2011	830324		
92710886012	**MCD-DGWC-8**	SM 2320B-2011	830324		
92710886013	**MCD-DGWC-11**	SM 2320B-2011	830324		
92710886014	**MCD-DGWC-19**	SM 2320B-2011	830324		
92710886015	**MCD-DGWC-20**	SM 2320B-2011	830324		
92710886016	**MCD-AP234-EB-2**	SM 2320B-2011	830324		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710886017	**MCD-AP234-EB-3**	SM 2320B-2011	830412		
92710886018	**MCD-AP234-FB-3**	SM 2320B-2011	830412		
92710886019	**MCD-DGWC-10**	SM 2320B-2011	830623		
92710886020	**MCD-DGWC-12**	SM 2320B-2011	831094		
92710886021	**MCD-DGWC-17**	SM 2320B-2011	831094		
92710886022	**MCD-DGWC-47**	SM 2320B-2011	831094		
92710886023	**MCD-DGWC-48**	SM 2320B-2011	831094		
92710886024	**MCD-DGWC-15**	SM 2320B-2011	831094		
92710886025	**MCD-DGWC-14**	SM 2320B-2011	831094		
92710886001	**MCD-DGWC-42**	SM 2540C-2015	829339		
92710886002	**MCD-AP234-FD-2**	SM 2540C-2015	829339		
92710886003	**MCD-DGWC-21**	SM 2540C-2015	829971		
92710886004	**MCD-DGWC-22**	SM 2540C-2015	829971		
92710886005	**MCD-DGWC-23**	SM 2540C-2015	829971		
92710886006	**MCD-DGWC-13**	SM 2540C-2015	829971		
92710886007	**MCD-AP234-FD-3**	SM 2540C-2015	829971		
92710886008	**MCD-AP234-FB-2**	SM 2540C-2015	829971		
92710886009	**MCD-DGWC-2**	SM 2540C-2015	829973		
92710886010	**MCD-DGWC-4**	SM 2540C-2015	829973		
92710886011	**MCD-DGWC-5**	SM 2540C-2015	829973		
92710886012	**MCD-DGWC-8**	SM 2540C-2015	829973		
92710886013	**MCD-DGWC-11**	SM 2540C-2015	829973		
92710886014	**MCD-DGWC-19**	SM 2540C-2015	830240		
92710886015	**MCD-DGWC-20**	SM 2540C-2015	830240		
92710886016	**MCD-AP234-EB-2**	SM 2540C-2015	830240		
92710886017	**MCD-AP234-EB-3**	SM 2540C-2015	830240		
92710886018	**MCD-AP234-FB-3**	SM 2540C-2015	830240		
92710886019	**MCD-DGWC-10**	SM 2540C-2015	830240		
92710886020	**MCD-DGWC-12**	SM 2540C-2015	830240		
92710886021	**MCD-DGWC-17**	SM 2540C-2015	831333		
92710886022	**MCD-DGWC-47**	SM 2540C-2015	830915		
92710886023	**MCD-DGWC-48**	SM 2540C-2015	830915		
92710886024	**MCD-DGWC-15**	SM 2540C-2015	830915		
92710886025	**MCD-DGWC-14**	SM 2540C-2015	830915		
92710886001	**MCD-DGWC-42**	SM 4500-S2D-2011	829293		
92710886002	**MCD-AP234-FD-2**	SM 4500-S2D-2011	829293		
92710886003	**MCD-DGWC-21**	SM 4500-S2D-2011	829632		
92710886004	**MCD-DGWC-22**	SM 4500-S2D-2011	829632		
92710886005	**MCD-DGWC-23**	SM 4500-S2D-2011	829632		
92710886006	**MCD-DGWC-13**	SM 4500-S2D-2011	829632		
92710886007	**MCD-AP234-FD-3**	SM 4500-S2D-2011	829632		
92710886008	**MCD-AP234-FB-2**	SM 4500-S2D-2011	829632		
92710886009	**MCD-DGWC-2**	SM 4500-S2D-2011	830837		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Network
Pace Project No.: 92710886

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710886010	**MCD-DGWC-4**	SM 4500-S2D-2011	830839		
92710886011	**MCD-DGWC-5**	SM 4500-S2D-2011	830839		
92710886012	**MCD-DGWC-8**	SM 4500-S2D-2011	830839		
92710886013	**MCD-DGWC-11**	SM 4500-S2D-2011	830839		
92710886014	**MCD-DGWC-19**	SM 4500-S2D-2011	830839		
92710886015	**MCD-DGWC-20**	SM 4500-S2D-2011	830839		
92710886016	**MCD-AP234-EB-2**	SM 4500-S2D-2011	830839		
92710886017	**MCD-AP234-EB-3**	SM 4500-S2D-2011	830839		
92710886018	**MCD-AP234-FB-3**	SM 4500-S2D-2011	830839		
92710886019	**MCD-DGWC-10**	SM 4500-S2D-2011	830839		
92710886020	**MCD-DGWC-12**	SM 4500-S2D-2011	830839		
92710886021	**MCD-DGWC-17**	SM 4500-S2D-2011	831204		
92710886022	**MCD-DGWC-47**	SM 4500-S2D-2011	831203		
92710886023	**MCD-DGWC-48**	SM 4500-S2D-2011	831203		
92710886024	**MCD-DGWC-15**	SM 4500-S2D-2011	831203		
92710886025	**MCD-DGWC-14**	SM 4500-S2D-2011	831203		
92710886001	**MCD-DGWC-42**	EPA 300.0 Rev 2.1 1993	829251		
92710886002	**MCD-AP234-FD-2**	EPA 300.0 Rev 2.1 1993	829251		
92710886003	**MCD-DGWC-21**	EPA 300.0 Rev 2.1 1993	829579		
92710886004	**MCD-DGWC-22**	EPA 300.0 Rev 2.1 1993	829579		
92710886005	**MCD-DGWC-23**	EPA 300.0 Rev 2.1 1993	829579		
92710886006	**MCD-DGWC-13**	EPA 300.0 Rev 2.1 1993	829579		
92710886007	**MCD-AP234-FD-3**	EPA 300.0 Rev 2.1 1993	829579		
92710886008	**MCD-AP234-FB-2**	EPA 300.0 Rev 2.1 1993	829579		
92710886009	**MCD-DGWC-2**	EPA 300.0 Rev 2.1 1993	829909		
92710886010	**MCD-DGWC-4**	EPA 300.0 Rev 2.1 1993	829909		
92710886011	**MCD-DGWC-5**	EPA 300.0 Rev 2.1 1993	829909		
92710886012	**MCD-DGWC-8**	EPA 300.0 Rev 2.1 1993	829909		
92710886013	**MCD-DGWC-11**	EPA 300.0 Rev 2.1 1993	829909		
92710886014	**MCD-DGWC-19**	EPA 300.0 Rev 2.1 1993	829909		
92710886015	**MCD-DGWC-20**	EPA 300.0 Rev 2.1 1993	829909		
92710886016	**MCD-AP234-EB-2**	EPA 300.0 Rev 2.1 1993	829909		
92710886017	**MCD-AP234-EB-3**	EPA 300.0 Rev 2.1 1993	829910		
92710886018	**MCD-AP234-FB-3**	EPA 300.0 Rev 2.1 1993	829910		
92710886019	**MCD-DGWC-10**	EPA 300.0 Rev 2.1 1993	829910		
92710886020	**MCD-DGWC-12**	EPA 300.0 Rev 2.1 1993	829910		
92710886021	**MCD-DGWC-17**	EPA 300.0 Rev 2.1 1993	830748		
92710886022	**MCD-DGWC-47**	EPA 300.0 Rev 2.1 1993	830748		
92710886023	**MCD-DGWC-48**	EPA 300.0 Rev 2.1 1993	830748		
92710886024	**MCD-DGWC-15**	EPA 300.0 Rev 2.1 1993	830748		
92710886025	**MCD-DGWC-14**	EPA 300.0 Rev 2.1 1993	830748		

REPORT OF LABORATORY ANALYSIS

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Pace ANALYTICAL SERVICES

SOP_Title: ENV-FRM-HUNT-0083 V03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #:

WO# : 92710886

92710886

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 1/31/24

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: 2.0

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

Cooler Temp Corrected (°C): 1.9

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92710886**

PM: BV Due Date: 02/14/24

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)	BP1N	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																		2				
2		2	1			1	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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

n A ed Client Information:		Section B Required Project Information:		Section C Invoice Information:	
ny:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
s:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Well Network	Pace Project Manager:	Bonnie Vang
sted Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710886
																N	N	N	N	N	N		
MCD-DGWC-42	WG	G	1/30/24	15:45		7	3		3		1					X	X	X	X	X	X		001
MCD-AP234-FD-2	WG	G	1/30/24	–		7	3		3		1					X	X	X	X	X	X		002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / WSP	1/31/24	0840	Chase [signature] Courier Now	1/31	
				[signature] / Pace	1/31/24	0938

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUNT-0065 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO#: 92710886

PM: BV Due Date: 02/14/24

CLIENT: 92-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/14/24 SR

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☑ IR Gun ID: 23C **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.2

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92710886**

PM: BV Due Date: 02/14/24

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)	[illegible]	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com	
Address: 2480 Maner Road Atlanta, GA 30339	Copy To: WSP	Company Name:	Regulatory Agency
Email: laucoker@southernco.com	Purchase Order #:	Address:	
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-234 Well Network	Pace Quote:	
Requested Due Date: 10 Day TAT	Project #: 31408440.McD23	Pace Project Manager: Bonnie Vang	State / Location: GA
		Pace Profile #:	

ITEM #	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/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 95139320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92710886
																Requested Analysis Filtered (Y/N)	N	N	N	N	N	N					
1	MCD-DGWC-21	WG	G	1/31/24	12:12		7	3		3		1					X	X	X	X	X	X					003
2	MCD-DGWC-22	WG	G	1/31/24	14:02		7	3		3		1					X	X	X	X	X	X					004
3	MCD-DGWC-23	WG	G	1/31/24	15:47		7	3		3		1					X	X	X	X	X	X					005
4	MCD-DGWC-13	WG	G	1/31/24	16:05		7	3		3		1					X	X	X	X	X	X					006
5	MCD-AP234-FD-3	WG	G	1/31/24	--		7	3		3		1					X	X	X	X	X	X					007
6	MCD-AP234-FB-2	WQ	G	1/31/24	14:15		7	3		3		1					X	X	X	X	X	X					008
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN	02/01/24	835	Courier now	2-1-24	
				OFYC	2-1-24	

Sample Conditions: Cooler Custody Seal Y/N/NA | Received on Ice Y/N | Samples Intact Y/N | Temp in °C

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO# : 92710886**

PM: BV **Due Date: 02/14/24**

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/7/24 SM

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) +0.1

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

Cooler Temp Corrected (°C): 4.2

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

***Check all unpreserved Nitrates for chlorine

Project # WO#:92710886

PM: BV Due Date: 02/14/24

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)	BP1N	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																		4				
2		2				1	1																		4				
3		2				1	1																		4				
4		2				1	1																		4				
5		2				1	1																		4				
6		2				1	1																		4				
7		2				1	1																		4				
8		2				1	1																		4				
9		2				1	1																		4				
10		2				1	1																		4				
11		2				1	1																		4				
12		2				1	1																		4				

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

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 Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Well Network	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	
State / Location	
GA	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710886
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	MCD-DGWC-2	WG	G	2/1/24	10:40		9	3		5		1					X	X	X	X	X	X		Extra Rads 009
2	MCD-DGWC-4	WG	G	2/1/24	12:15		7	3		3		1					X	X	X	X	X	X		010
3	MCD-DGWC-5	WG	G	2/1/24	13:28		9	3		5		1					X	X	X	X	X	X		Extra Rads 011
4	MCD-DGWC-8	WG	G	2/1/24	14:38		7	3		3		1					X	X	X	X	X	X		012
5	MCD-DGWC-11	WG	G	2/1/24	14:48		7	3		3		1					X	X	X	X	X	X		013
6	MCD-DGWC-19	WG	G	2/1/24	14:38		7	3		3		1					X	X	X	X	X	X		014
7	MCD-DGWC-20	WG	G	2/1/24	13:10		7	3		3		1					X	X	X	X	X	X		015
8	MCD-AP234-EB-2	WQ	G	2/1/24	15:20		7	3		3		1					X	X	X	X	X	X		016
9	MCD-AP234-EB-3	WQ	G	2/1/24	15:00		7	3		3		1					X	X	X	X	X	X		017
10	MCD-AP234-FB-3	WQ	G	2/1/24	12:15		7	3		3		1					X	X	X	X	X	X		018
11	MCD-DGWC-10	WG	G	2/2/24	11:32		7	3		3		1					X	X	X	X	X	X		019
12	MCD-DGWC-12	WG	G	2/2/24	11:51		7	3		3		1					X	X	X	X	X	X		020
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MAER MANN / [illegible] WA	2/2/24	1417	[signature] / Pace	2/2/24	1417

DATE Signed:

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

Pace ANALYTICAL SERVICES

DOC#_Title: ENV-FRM-RICH-0000 v00_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Residuals

Project #:

WO#: 92710886

PM: BV Due Date: 02/14/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/6/24 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

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

Cooler Temp: 5.4 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.3

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

***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#: 92710886

PM: BV **Due Date: 02/14/24**

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)	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)
1		2	1			1	1																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7		2	1			1	1																		2				
8		2	1			1	1																		2				
9		2	1			1	1																		2				
10		2	1			1	1																		2				
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

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Well Network	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92716886
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	MCD-DGWC-17	WG	G	2/6/24	10:01		7	3		3		1					X	X	X	X	X	X		01
2	MCD-DGWC-47	WG	G	2/5/24	10:35		7	3		3		1					X	X	X	X	X	X		02
3	MCD-DGWC-48	WG	G	2/5/24	12:55		7	3		3		1					X	X	X	X	X	X		03
4	MCD-DGWC-15	WG	G	2/5/24	10:53		7	3		3		1					X	X	X	X	X	X		04
5	MCD-DGWC-14	WG	G	2/5/24	9:22		7	3		3		1					X	X	X	X	X	X		05
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature]	02/06/24	1355	[signature]	2/6/24	0.5

DATE Signed:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 21, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2024 and February 06, 2024. 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

Revision 1: Move samples MCD-B-92, MCD-B-93, and MCD-B-98 to WO# 92711281.

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710944004	**MCD-B-63**	Water	02/01/24 13:14	02/02/24 14:17
92710944005	**MCD-B-66**	Water	02/01/24 10:47	02/02/24 14:17
92710944006	**MCD-B-82**	Water	02/01/24 12:17	02/02/24 14:17
92710944007	**MCD-B-122D**	Water	02/01/24 10:48	02/02/24 14:17
92710944008	**MCD-B-108D**	Water	02/01/24 15:22	02/02/24 14:17
92710944009	**MCD-B-107D**	Water	02/01/24 15:57	02/02/24 14:17
92710944010	**MCD-B-83**	Water	02/01/24 15:51	02/02/24 14:17
92710944011	**MCD-AP234-FD-4**	Water	02/01/24 00:00	02/02/24 14:17
92710944012	**MCD-B-101D**	Water	02/02/24 10:46	02/02/24 14:17
92710944013	**MCD-B-102D**	Water	02/02/24 09:26	02/02/24 14:17
92710944014	**MCD-B-106D**	Water	02/02/24 09:43	02/02/24 14:17
92710944015	**MCD-AP234-FB-4**	Water	02/02/24 09:00	02/02/24 14:17
92710944016	**MCD-AP234-FD-5**	Water	02/02/24 00:00	02/02/24 14:17
92710944017	**MCD-B-88**	Water	02/05/24 10:08	02/06/24 13:55
92710944018	**MCD-B-120D**	Water	02/05/24 12:58	02/06/24 13:55
92710944019	**MCD-B-77**	Water	02/05/24 13:59	02/06/24 13:55
92710944020	**MCD-B-104D**	Water	02/05/24 16:06	02/06/24 13:55
92710944021	**MCD-B-111D**	Water	02/05/24 13:55	02/06/24 13:55
92710944022	**MCD-B-125D**	Water	02/05/24 13:40	02/06/24 13:55
92710944023	**MCD-B-56**	Water	02/05/24 16:36	02/06/24 13:55
92710944024	**MCD-AP234-EB-4**	Water	02/05/24 15:15	02/06/24 13:55
92710944025	**MCD-AP234-EB-5**	Water	02/05/24 11:20	02/06/24 13:55
92710944026	**MCD-AP234-FB-5**	Water	02/05/24 14:40	02/06/24 13:55

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92710944004	**MCD-B-63**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944005	**MCD-B-66**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944006	**MCD-B-82**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944007	**MCD-B-122D**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944008	**MCD-B-108D**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944009	**MCD-B-107D**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944010	**MCD-B-83**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944011	**MCD-AP234-FD-4**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944012	**MCD-B-101D**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944013	**MCD-B-102D**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944014	**MCD-B-106D**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944015	**MCD-AP234-FB-4**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944016	**MCD-AP234-FD-5**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92710944017	**MCD-B-88**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944018	**MCD-B-120D**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944019	**MCD-B-77**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944020	**MCD-B-104D**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944021	**MCD-B-111D**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944022	**MCD-B-125D**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944023	**MCD-B-56**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944024	**MCD-AP234-EB-4**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944025	**MCD-AP234-EB-5**	EPA 6010D	AJM	5

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944026	**MCD-AP234-FB-5**	EPA 6010D	AJM	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-63 **Lab ID: 92710944004** Collected: 02/01/24 13:14 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.0**	mg/L	0.20	0.13	5	02/03/24 10:02	02/10/24 20:30	7439-89-6	
Sodium	**12.3**	mg/L	5.0	2.9	5	02/03/24 10:02	02/10/24 20:30	7440-23-5	
Magnesium	**7.7**	mg/L	0.25	0.059	5	02/03/24 10:02	02/10/24 20:30	7439-95-4	
Potassium	**2.9**	mg/L	2.5	0.76	5	02/03/24 10:02	02/18/24 22:11	7440-09-7	
Calcium	**22.6**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 03:58	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 08:47	02/07/24 15:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 15:23	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 15:23	7440-39-3	
Beryllium	**0.00035J**	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 15:23	7440-41-7	
Boron	**0.45**	mg/L	0.040	0.012	1	02/03/24 08:47	02/07/24 15:23	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 15:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 15:23	7440-47-3	
Cobalt	**0.030**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 15:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 15:23	7439-92-1	
Lithium	**0.0052J**	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 15:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 15:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 15:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 15:23	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	02/15/24 09:30	02/15/24 13:53	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**80.9**	mg/L	5.0	5.0	1		02/06/24 16:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 16:45		
Alkalinity, Total as CaCO3	**80.9**	mg/L	5.0	5.0	1		02/06/24 16:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**185**	mg/L	25.0	25.0	1		02/04/24 12:49		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		02/03/24 19:43	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/03/24 19:43	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-63 **Lab ID: 92710944004** Collected: 02/01/24 13:14 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**57.0**	mg/L	1.0	0.50	1		02/03/24 19:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-66 **Lab ID: 92710944005** Collected: 02/01/24 10:47 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**43.5**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 04:08	7440-70-2	
Iron	**0.50**	mg/L	0.20	0.13	5	02/03/24 10:02	02/10/24 20:34	7439-89-6	
Sodium	**29.2**	mg/L	5.0	2.9	5	02/03/24 10:02	02/10/24 20:34	7440-23-5	
Magnesium	**40.7**	mg/L	0.25	0.059	5	02/03/24 10:02	02/10/24 20:34	7439-95-4	
Potassium	**5.6**	mg/L	2.5	0.76	5	02/03/24 10:02	02/18/24 22:16	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	0.00054	1	02/03/24 08:47	02/07/24 15:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 15:26	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 15:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 15:26	7440-41-7	
Boron	**2.1**	mg/L	0.040	0.012	1	02/03/24 08:47	02/07/24 15:26	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 15:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 15:26	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 15:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 15:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 15:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 15:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 15:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 15:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 13:55	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**64.1**	mg/L	5.0	5.0	1		02/06/24 16:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 16:55		
Alkalinity, Total as CaCO3	**64.1**	mg/L	5.0	5.0	1		02/06/24 16:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**498**	mg/L	25.0	25.0	1		02/04/24 12:49		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.0**	mg/L	1.0	0.60	1		02/03/24 19:58	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/03/24 19:58	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-66 **Lab ID: 92710944005** Collected: 02/01/24 10:47 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**256**	mg/L	5.0	2.5	5		02/04/24 09:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-82 **Lab ID: 92710944006** Collected: 02/01/24 12:17 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**55.7**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 04:17	7440-70-2	
Potassium	**7.9**	mg/L	0.50	0.15	1	02/03/24 10:02	02/18/24 22:20	7440-09-7	
Iron	**0.069**	mg/L	0.040	0.025	1	02/03/24 10:02	02/10/24 20:39	7439-89-6	
Sodium	**18.9**	mg/L	1.0	0.58	1	02/03/24 10:02	02/10/24 20:39	7440-23-5	
Magnesium	**62.3**	mg/L	0.050	0.012	1	02/03/24 10:02	02/10/24 20:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 08:47	02/07/24 16:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 16:04	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 16:04	7440-39-3	
Beryllium	**0.0016**	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 16:04	7440-41-7	
Boron	**0.36**	mg/L	0.040	0.012	1	02/03/24 08:47	02/07/24 16:04	7440-42-8	
Cadmium	**0.00072**	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 16:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 16:04	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 16:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 16:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 16:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 16:04	7439-98-7	
Selenium	**0.0028J**	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 16:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 16:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:03	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**20.4**	mg/L	5.0	5.0	1		02/06/24 17:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 17:03		
Alkalinity, Total as CaCO3	**20.4**	mg/L	5.0	5.0	1		02/06/24 17:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**641**	mg/L	25.0	25.0	1		02/04/24 12:49		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.9**	mg/L	1.0	0.60	1		02/03/24 20:13	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		02/03/24 20:13	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-82 **Lab ID: 92710944006** Collected: 02/01/24 12:17 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**368**	mg/L	8.0	4.0	8		02/04/24 09:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-122D **Lab ID: 92710944007** Collected: 02/01/24 10:48 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**53.6**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 04:27	7440-70-2	
Iron	**10.7**	mg/L	0.20	0.13	5	02/03/24 10:02	02/10/24 20:44	7439-89-6	
Sodium	**25.6**	mg/L	5.0	2.9	5	02/03/24 10:02	02/10/24 20:44	7440-23-5	
Magnesium	**10.3**	mg/L	0.25	0.059	5	02/03/24 10:02	02/10/24 20:44	7439-95-4	
Potassium	**4.2**	mg/L	2.5	0.76	5	02/03/24 10:02	02/18/24 22:35	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00060J**	mg/L	0.0030	0.00054	1	02/03/24 08:47	02/07/24 16:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 16:08	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 16:08	7440-39-3	
Beryllium	**0.00045J**	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 16:08	7440-41-7	
Boron	**0.28**	mg/L	0.040	0.012	1	02/03/24 08:47	02/07/24 16:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 16:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 16:08	7440-47-3	
Cobalt	**0.0087**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 16:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 16:08	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 16:08	7439-93-2	
Molybdenum	**0.0011J**	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 16:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 16:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 16:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	5.0	1		02/06/24 17:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 17:10		
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		02/06/24 17:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**361**	mg/L	25.0	25.0	1		02/04/24 12:49		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.7**	mg/L	1.0	0.60	1		02/03/24 20:28	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		02/03/24 20:28	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-122D **Lab ID: 92710944007** Collected: 02/01/24 10:48 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**127**	mg/L	3.0	1.5	3		02/04/24 10:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-108D **Lab ID: 92710944008** Collected: 02/01/24 15:22 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**75.3**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 04:46	7440-70-2	
Magnesium	**28.6**	mg/L	0.050	0.012	1	02/03/24 10:02	02/08/24 04:46	7439-95-4	
Potassium	**6.0**	mg/L	2.5	0.76	5	02/03/24 10:02	02/18/24 22:40	7440-09-7	
Iron	**2.2**	mg/L	0.20	0.13	5	02/03/24 10:02	02/10/24 20:49	7439-89-6	
Sodium	**17.8**	mg/L	5.0	2.9	5	02/03/24 10:02	02/10/24 20:49	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 08:47	02/07/24 16:12	7440-36-0	
Arsenic	**0.0080**	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 16:12	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 16:12	7440-39-3	
Beryllium	**0.00058**	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 16:12	7440-41-7	
Boron	**6.0**	mg/L	0.040	0.012	1	02/03/24 08:47	02/07/24 16:12	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 16:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 16:12	7440-47-3	
Cobalt	**0.12**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 16:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 16:12	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 16:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 16:12	7439-98-7	
Selenium	**0.025**	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 16:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 16:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**20.1**	mg/L	5.0	5.0	1		02/06/24 17:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 17:21		
Alkalinity, Total as CaCO3	**20.1**	mg/L	5.0	5.0	1		02/06/24 17:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**629**	mg/L	25.0	25.0	1		02/04/24 12:49		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**28.9**	mg/L	1.0	0.60	1		02/03/24 21:42	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		02/03/24 21:42	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-108D **Lab ID: 92710944008** Collected: 02/01/24 15:22 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**337**	mg/L	7.0	3.5	7		02/04/24 10:14	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-107D **Lab ID: 92710944009** Collected: 02/01/24 15:57 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**78.9**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 04:56	7440-70-2	
Potassium	**5.8**	mg/L	0.50	0.15	1	02/03/24 10:02	02/18/24 22:44	7440-09-7	
Iron	**0.31**	mg/L	0.040	0.025	1	02/03/24 10:02	02/10/24 20:54	7439-89-6	
Sodium	**20.5**	mg/L	1.0	0.58	1	02/03/24 10:02	02/10/24 20:54	7440-23-5	
Magnesium	**30.1**	mg/L	0.050	0.012	1	02/03/24 10:02	02/10/24 20:54	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	0.00054	1	02/03/24 08:47	02/07/24 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 16:15	7440-38-2	
Barium	**0.040**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 16:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 16:15	7440-41-7	
Boron	**12.0**	mg/L	2.0	0.60	50	02/03/24 08:47	02/08/24 14:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 16:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 16:15	7440-47-3	
Cobalt	**0.00088J**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 16:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 16:15	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 16:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 16:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 16:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 16:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:11	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.2**	mg/L	5.0	5.0	1		02/06/24 17:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 17:27		
Alkalinity, Total as CaCO3	**27.2**	mg/L	5.0	5.0	1		02/06/24 17:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**580**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.4**	mg/L	1.0	0.60	1		02/03/24 22:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/03/24 22:26	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-107D **Lab ID: 92710944009** Collected: 02/01/24 15:57 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**299**	mg/L	6.0	3.0	6		02/04/24 10:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-83 **Lab ID: 92710944010** Collected: 02/01/24 15:51 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**33.1**	mg/L	1.0	0.12	1	02/03/24 10:02	02/08/24 05:06	7440-70-2	
Potassium	**2.2**	mg/L	0.50	0.15	1	02/03/24 10:02	02/18/24 22:49	7440-09-7	
Iron	**0.058**	mg/L	0.040	0.025	1	02/03/24 10:02	02/10/24 20:58	7439-89-6	
Sodium	**10.2**	mg/L	1.0	0.58	1	02/03/24 10:02	02/10/24 20:58	7440-23-5	
Magnesium	**9.2**	mg/L	0.050	0.012	1	02/03/24 10:02	02/10/24 20:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 08:47	02/07/24 16:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 08:47	02/07/24 16:19	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00047	1	02/03/24 08:47	02/07/24 16:19	7440-39-3	
Beryllium	**0.00038J**	mg/L	0.00050	0.000094	1	02/03/24 08:47	02/07/24 16:19	7440-41-7	
Boron	**0.39**	mg/L	0.040	0.012	1	02/03/24 08:47	02/07/24 16:19	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00010	1	02/03/24 08:47	02/07/24 16:19	7440-43-9	
Chromium	**0.0023J**	mg/L	0.0050	0.0019	1	02/03/24 08:47	02/07/24 16:19	7440-47-3	
Cobalt	**0.017**	mg/L	0.0050	0.00032	1	02/03/24 08:47	02/07/24 16:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 08:47	02/07/24 16:19	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.0016	1	02/03/24 08:47	02/07/24 16:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 08:47	02/07/24 16:19	7439-98-7	
Selenium	**0.017**	mg/L	0.0050	0.00096	1	02/03/24 08:47	02/07/24 16:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 08:47	02/07/24 16:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:14	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**39.4**	mg/L	5.0	5.0	1		02/06/24 17:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 17:44		
Alkalinity, Total as CaCO3	**39.4**	mg/L	5.0	5.0	1		02/06/24 17:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**212**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		02/03/24 22:41	16887-00-6	
Fluoride	**0.073J**	mg/L	0.10	0.050	1		02/03/24 22:41	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-83 **Lab ID: 92710944010** Collected: 02/01/24 15:51 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**98.3**	mg/L	2.0	1.0	2		02/04/24 11:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FD-4 **Lab ID: 92710944011** Collected: 02/01/24 00:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.7**	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 21:35	7440-70-2	
Magnesium	**7.7**	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 21:35	7439-95-4	
Iron	**7.6**	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 21:23	7439-89-6	
Sodium	**12.9**	mg/L	1.0	0.58	1	02/03/24 10:10	02/10/24 21:23	7440-23-5	
Potassium	**3.3**	mg/L	2.5	0.76	5	02/03/24 10:10	02/18/24 19:27	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	0.00054	1	02/03/24 09:04	02/06/24 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 16:48	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 16:48	7440-39-3	
Beryllium	**0.00037J**	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 16:48	7440-41-7	
Boron	**0.49**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 16:48	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 16:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 16:48	7440-47-3	
Cobalt	**0.032**	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 16:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 16:48	7439-92-1	
Lithium	**0.0055J**	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 16:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 16:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 16:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 16:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:16	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**80.3**	mg/L	5.0	5.0	1		02/06/24 17:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 17:51		
Alkalinity, Total as CaCO3	**80.3**	mg/L	5.0	5.0	1		02/06/24 17:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**189**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		02/03/24 22:56	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/03/24 22:56	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FD-4 **Lab ID: 92710944011** Collected: 02/01/24 00:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**56.5**	mg/L	1.0	0.50	1		02/03/24 22:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-101D **Lab ID: 92710944012** Collected: 02/02/24 10:46 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**92.4**	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 21:40	7440-70-2	
Magnesium	**35.3**	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 21:40	7439-95-4	
Potassium	**7.0**	mg/L	2.5	0.76	5	02/03/24 10:10	02/18/24 19:32	7440-09-7	
Iron	**0.39**	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 21:28	7439-89-6	
Sodium	**27.2**	mg/L	1.0	0.58	1	02/03/24 10:10	02/10/24 21:28	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00062J**	mg/L	0.0030	0.00054	1	02/03/24 09:04	02/06/24 16:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 16:51	7440-38-2	
Barium	**0.071**	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 16:51	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 16:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 16:51	7440-47-3	
Cobalt	**0.0026J**	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 16:51	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 16:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 16:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:19	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**38.9**	mg/L	5.0	5.0	1		02/06/24 22:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 22:08		
Alkalinity, Total as CaCO3	**38.9**	mg/L	5.0	5.0	1		02/06/24 22:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**649**	mg/L	25.0	25.0	1		02/06/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		02/03/24 23:11	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		02/03/24 23:11	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-101D **Lab ID: 92710944012** Collected: 02/02/24 10:46 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**353**	mg/L	8.0	4.0	8		02/04/24 11:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-102D **Lab ID: 92710944013** Collected: 02/02/24 09:26 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**64.5**	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 21:45	7440-70-2	M1
Magnesium	**13.7**	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 21:45	7439-95-4	M1
Iron	**0.029J**	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 21:33	7439-89-6	
Sodium	**19.7**	mg/L	1.0	0.58	1	02/03/24 10:10	02/10/24 21:33	7440-23-5	M1
Potassium	**5.7**	mg/L	5.0	1.5	10	02/03/24 10:10	02/18/24 19:37	7440-09-7	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0010J**	mg/L	0.0030	0.00054	1	02/03/24 09:04	02/06/24 17:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 17:06	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 17:06	7440-39-3	
Beryllium	**0.00081**	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 17:06	7440-41-7	
Boron	**1.9**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 17:06	7440-42-8	
Cadmium	**0.00061**	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 17:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 17:06	7440-47-3	
Cobalt	**0.0088**	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 17:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 17:06	7439-92-1	
Lithium	**0.010J**	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 17:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 17:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 17:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 17:06	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	02/15/24 09:30	02/15/24 14:21	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.4**	mg/L	5.0	5.0	1		02/06/24 22:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 22:15		
Alkalinity, Total as CaCO3	**14.4**	mg/L	5.0	5.0	1		02/06/24 22:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**414**	mg/L	25.0	25.0	1		02/06/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.3**	mg/L	1.0	0.60	1		02/03/24 23:25	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		02/03/24 23:25	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-102D **Lab ID: 92710944013** Collected: 02/02/24 09:26 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**222**	mg/L	5.0	2.5	5		02/04/24 11:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-106D **Lab ID: 92710944014** Collected: 02/02/24 09:43 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.4**	mg/L	2.5	0.76	5	02/03/24 10:10	02/18/24 19:51	7440-09-7	
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 21:58	7439-89-6	
Sodium	**13.6**	mg/L	1.0	0.58	1	02/03/24 10:10	02/10/24 21:58	7440-23-5	
Calcium	**28.9**	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 22:05	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 22:05	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	0.00054	1	02/03/24 09:04	02/06/24 17:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 17:10	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 17:10	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 17:10	7440-41-7	
Boron	**0.86**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 17:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 17:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 17:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 17:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 17:10	7439-92-1	
Lithium	**0.0051J**	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 17:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 17:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 17:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 17:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:24	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**34.4**	mg/L	5.0	5.0	1		02/06/24 22:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 22:33		
Alkalinity, Total as CaCO3	**34.4**	mg/L	5.0	5.0	1		02/06/24 22:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**252**	mg/L	25.0	25.0	1		02/06/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.1**	mg/L	1.0	0.60	1		02/03/24 23:40	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/03/24 23:40	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-106D **Lab ID: 92710944014** Collected: 02/02/24 09:43 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**112**	mg/L	2.0	1.0	2		02/04/24 12:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FB-4 **Lab ID: 92710944015** Collected: 02/02/24 09:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 22:02	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	02/03/24 10:10	02/07/24 22:09	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/03/24 10:10	02/07/24 22:09	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 22:09	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 22:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:04	02/06/24 17:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 17:14	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 17:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 17:14	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 17:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 17:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 17:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 17:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 17:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 17:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 17:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 17:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 17:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:27	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/24 19:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/24 19:13		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/07/24 19:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/06/24 13:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/03/24 13:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/03/24 13:33	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FB-4 **Lab ID: 92710944015** Collected: 02/02/24 09:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/03/24 13:33	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FD-5 **Lab ID: 92710944016** Collected: 02/02/24 00:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.8**	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 22:24	7440-70-2	
Magnesium	**13.6**	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 22:24	7439-95-4	
Iron	ND	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 22:07	7439-89-6	
Sodium	**13.6**	mg/L	1.0	0.58	1	02/03/24 10:10	02/10/24 22:07	7440-23-5	
Potassium	**3.5**	mg/L	2.5	0.76	5	02/03/24 10:10	02/18/24 20:01	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	0.00054	1	02/03/24 09:04	02/06/24 18:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 18:15	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 18:15	7440-39-3	
Beryllium	**0.000095J**	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 18:15	7440-41-7	
Boron	**0.81**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 18:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 18:15	7439-92-1	
Lithium	**0.0048J**	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 18:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 18:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 18:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**34.1**	mg/L	5.0	5.0	1		02/07/24 19:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/07/24 19:27		
Alkalinity, Total as CaCO3	**34.1**	mg/L	5.0	5.0	1		02/07/24 19:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**252**	mg/L	25.0	25.0	1		02/06/24 13:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.1**	mg/L	1.0	0.60	1		02/03/24 23:55	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/03/24 23:55	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FD-5 **Lab ID: 92710944016** Collected: 02/02/24 00:00 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**112**	mg/L	2.0	1.0	2		02/04/24 12:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-88 **Lab ID: 92710944017** Collected: 02/05/24 10:08 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.086**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 21:55	7439-89-6	
Potassium	**11.5**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 21:55	7440-09-7	M1
Sodium	**29.0**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 21:55	7440-23-5	M1
Calcium	**118**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 21:55	7440-70-2	M1
Magnesium	**40.8**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 21:55	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	0.00054	1	02/08/24 13:07	02/16/24 13:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:36	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:36	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:36	7440-41-7	
Boron	**2.4**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:36	7440-42-8	
Cadmium	**0.0023**	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:36	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:36	7440-48-4	
Lead	**0.00073J**	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:36	7439-92-1	
Lithium	**0.0044J**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:36	7439-98-7	
Selenium	**0.0039J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:36	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	02/15/24 09:30	02/15/24 14:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.0**	mg/L	5.0	5.0	1		02/08/24 13:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 13:15		
Alkalinity, Total as CaCO3	**14.0**	mg/L	5.0	5.0	1		02/08/24 13:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**802**	mg/L	50.0	50.0	1		02/08/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.9**	mg/L	1.0	0.60	1		02/07/24 23:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/24 23:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-88 **Lab ID: 92710944017** Collected: 02/05/24 10:08 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**433**	mg/L	9.0	4.5	9		02/08/24 05:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-120D **Lab ID: 92710944018** Collected: 02/05/24 12:58 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:15	7439-89-6	
Potassium	**8.3**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:15	7440-09-7	
Sodium	**27.7**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:15	7440-23-5	
Calcium	**115**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:15	7440-70-2	
Magnesium	**24.6**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:15	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	0.00054	1	02/08/24 13:07	02/16/24 13:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:40	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:40	7440-39-3	
Beryllium	**0.00089**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:40	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:40	7440-42-8	
Cadmium	**0.00097**	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:40	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:40	7439-92-1	
Lithium	**0.057**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:40	7439-98-7	
Selenium	**0.0045J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:40	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.3**	mg/L	5.0	5.0	1		02/08/24 13:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 13:21		
Alkalinity, Total as CaCO3	**25.3**	mg/L	5.0	5.0	1		02/08/24 13:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**710**	mg/L	50.0	50.0	1		02/08/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/07/24 23:51	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/07/24 23:51	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-120D **Lab ID: 92710944018** Collected: 02/05/24 12:58 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**374**	mg/L	8.0	4.0	8		02/08/24 06:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-77 **Lab ID: 92710944019** Collected: 02/05/24 13:59 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**42.6**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:20	7439-89-6	
Potassium	**2.2**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:20	7440-09-7	
Sodium	**6.3**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:20	7440-23-5	
Calcium	**19.0**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:20	7440-70-2	
Magnesium	**6.3**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 13:43	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:43	7440-38-2	
Barium	**0.11**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:43	7440-41-7	
Boron	**0.28**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:43	7440-47-3	
Cobalt	**0.00032J**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:43	7440-48-4	
Lead	**0.00066J**	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 17:42	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**117**	mg/L	5.0	5.0	1		02/08/24 13:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 13:28		
Alkalinity, Total as CaCO3	**117**	mg/L	5.0	5.0	1		02/08/24 13:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**122**	mg/L	25.0	25.0	1		02/08/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/08/24 00:06	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		02/08/24 00:06	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-77 **Lab ID: 92710944019** Collected: 02/05/24 13:59 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**0.78J**	mg/L	1.0	0.50	1		02/08/24 00:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-104D **Lab ID: 92710944020** Collected: 02/05/24 16:06 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**11.3**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:24	7439-89-6	
Potassium	**8.2**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:24	7440-09-7	
Sodium	**19.4**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:24	7440-23-5	
Calcium	**157**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:24	7440-70-2	
Magnesium	**27.9**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:24	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	0.00054	1	02/08/24 13:07	02/16/24 13:47	7440-36-0	
Arsenic	**0.00093J**	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:47	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:47	7440-39-3	
Beryllium	**0.0014**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:47	7440-41-7	
Boron	**0.22**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:47	7440-47-3	
Cobalt	**0.16**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:47	7440-48-4	
Lead	**0.00047J**	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:47	7439-92-1	
Lithium	**0.037**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:47	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:47	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	02/15/24 13:00	02/15/24 16:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**69.3**	mg/L	5.0	5.0	1		02/08/24 13:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 13:36		
Alkalinity, Total as CaCO3	**69.3**	mg/L	5.0	5.0	1		02/08/24 13:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**830**	mg/L	50.0	50.0	1		02/08/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.025J**	mg/L	0.10	0.022	1		02/09/24 02:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.1**	mg/L	1.0	0.60	1		02/08/24 00:21	16887-00-6	
Fluoride	**0.29**	mg/L	0.10	0.050	1		02/08/24 00:21	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-104D **Lab ID: 92710944020** Collected: 02/05/24 16:06 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**449**	mg/L	10.0	5.0	10		02/08/24 06:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-111D **Lab ID: 92710944021** Collected: 02/05/24 13:55 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.092**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:29	7439-89-6	
Potassium	**10.9**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:29	7440-09-7	
Sodium	**49.1**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:29	7440-23-5	
Calcium	**102**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:29	7440-70-2	
Magnesium	**10.0**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 13:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:51	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:51	7440-41-7	
Boron	**0.25**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:51	7439-92-1	
Lithium	**0.022J**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:51	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 16:36	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		02/08/24 13:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 13:45		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		02/08/24 13:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**586**	mg/L	25.0	25.0	1		02/08/24 13:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.3**	mg/L	1.0	0.60	1		02/08/24 01:05	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.050	1		02/08/24 01:05	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-111D **Lab ID: 92710944021** Collected: 02/05/24 13:55 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**235**	mg/L	5.0	2.5	5		02/08/24 07:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-125D **Lab ID: 92710944022** Collected: 02/05/24 13:40 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.2**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:44	7439-89-6	
Potassium	**3.1**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:44	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:44	7440-23-5	
Calcium	**10.5**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:44	7440-70-2	
Magnesium	**7.7**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 13:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:55	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:55	7440-41-7	
Boron	**0.95**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:55	7440-47-3	
Cobalt	**0.0039J**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:55	7439-92-1	
Lithium	**0.028J**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:55	7439-93-2	
Molybdenum	**0.0033J**	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 16:38	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**93.1**	mg/L	5.0	5.0	1		02/08/24 13:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 13:54		
Alkalinity, Total as CaCO3	**93.1**	mg/L	5.0	5.0	1		02/08/24 13:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**864**	mg/L	50.0	50.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.053J**	mg/L	0.10	0.022	1		02/09/24 02:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.8**	mg/L	1.0	0.60	1		02/08/24 01:20	16887-00-6	
Fluoride	**0.068J**	mg/L	0.10	0.050	1		02/08/24 01:20	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-125D **Lab ID: 92710944022** Collected: 02/05/24 13:40 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**434**	mg/L	9.0	4.5	9		02/08/24 07:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-56 **Lab ID: 92710944023** Collected: 02/05/24 16:36 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.083**	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:49	7439-89-6	
Potassium	**5.0**	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:49	7440-09-7	
Sodium	**20.1**	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:49	7440-23-5	
Calcium	**22.5**	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:49	7440-70-2	
Magnesium	**34.7**	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 13:58	7440-36-0	
Arsenic	**0.0042J**	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 13:58	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 13:58	7440-39-3	
Beryllium	**0.0013**	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 13:58	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 13:58	7440-42-8	
Cadmium	**0.00036J**	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 13:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 13:58	7440-47-3	
Cobalt	**0.070**	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 13:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 13:58	7439-92-1	
Lithium	**0.0061J**	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 13:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 13:58	7439-98-7	
Selenium	**0.020**	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 13:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 13:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00029**	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 16:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:04		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/24 14:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**421**	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		02/08/24 01:35	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		02/08/24 01:35	16984-48-8	

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(704)875-9092

ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-B-56 **Lab ID: 92710944023** Collected: 02/05/24 16:36 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**236**	mg/L	5.0	2.5	5		02/08/24 07:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-EB-4 **Lab ID: 92710944024** Collected: 02/05/24 15:15 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:54	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:54	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:54	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:54	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:54	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	0.00054	1	02/08/24 13:07	02/16/24 14:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:02	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:02	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 14:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 16:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:18		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/24 14:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/07/24 22:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/24 22:22	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-EB-4 **Lab ID: 92710944024** Collected: 02/05/24 15:15 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/07/24 22:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-EB-5 **Lab ID: 92710944025** Collected: 02/05/24 11:20 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 22:59	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 22:59	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 22:59	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 22:59	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 22:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00073J**	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 14:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:29	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:29	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 14:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 13:00	02/15/24 16:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/24 14:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/07/24 22:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/24 22:37	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-EB-5 **Lab ID: 92710944025** Collected: 02/05/24 11:20 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/07/24 22:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FB-5 **Lab ID: 92710944026** Collected: 02/05/24 14:40 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/07/24 18:49	02/19/24 23:03	7439-89-6	
Potassium	ND	mg/L	0.50	0.15	1	02/07/24 18:49	02/19/24 23:03	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/07/24 18:49	02/19/24 23:03	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/07/24 18:49	02/19/24 23:03	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/07/24 18:49	02/19/24 23:03	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/08/24 13:07	02/16/24 14:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/08/24 13:07	02/16/24 14:32	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/08/24 13:07	02/16/24 14:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/08/24 13:07	02/16/24 14:32	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/08/24 13:07	02/16/24 14:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/08/24 13:07	02/16/24 14:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/08/24 13:07	02/16/24 14:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/08/24 13:07	02/16/24 14:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/08/24 13:07	02/16/24 14:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/08/24 13:07	02/16/24 14:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/08/24 13:07	02/16/24 14:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/08/24 13:07	02/16/24 14:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/08/24 13:07	02/16/24 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	02/15/24 13:00	02/15/24 16:49	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/08/24 14:26		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/08/24 14:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/08/24 13:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/09/24 02:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/07/24 22:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/07/24 22:52	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Sample: MCD-AP234-FB-5 **Lab ID: 92710944026** Collected: 02/05/24 14:40 Received: 02/06/24 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		02/07/24 22:52	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829905
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010

METHOD BLANK: 4289491 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/08/24 00:50	
Iron	mg/L	ND	0.040	0.025	02/18/24 20:39	
Magnesium	mg/L	ND	0.050	0.012	02/08/24 00:50	
Potassium	mg/L	ND	0.50	0.15	02/08/24 00:50	
Sodium	mg/L	ND	1.0	0.58	02/08/24 00:50	

LABORATORY CONTROL SAMPLE: 4289492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	0.91	91	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289493 4289494

Parameter	Units	92711015007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	102	1	1	99.0	103	-253	156	75-125	4	20	M1
Iron	mg/L	0.093	1	1	1.1	1.1	99	97	75-125	2	20	
Magnesium	mg/L	19.7	1	1	19.9	20.7	24	104	75-125	4	20	M1
Potassium	mg/L	1.5	1	1	2.6	2.5	108	105	75-125	1	20	
Sodium	mg/L	5.3	1	1	6.3	6.4	102	115	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829906
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

METHOD BLANK: 4289495 Matrix: Water
Associated Lab Samples: 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/07/24 21:23	
Iron	mg/L	ND	0.040	0.025	02/10/24 21:13	
Magnesium	mg/L	ND	0.050	0.012	02/07/24 21:23	
Potassium	mg/L	ND	0.50	0.15	02/07/24 21:23	
Sodium	mg/L	ND	1.0	0.58	02/07/24 21:23	

LABORATORY CONTROL SAMPLE: 4289496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	115	80-120	
Sodium	mg/L	1	1.1	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289497 4289498

Parameter	Units	92710944013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	64.5	1	1	61.3	62.9	-324	-166	75-125	3	20	M1
Iron	mg/L	0.029J	1	1	1.0	0.97	99	94	75-125	4	20	
Magnesium	mg/L	13.7	1	1	13.9	14.3	23	57	75-125	2	20	M1
Potassium	mg/L	5.7	1	1	7.4	6.5	168	85	75-125	12	20	M1
Sodium	mg/L	19.7	1	1	19.6	19.6	-7	-10	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830786
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4293962 Matrix: Water
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/19/24 21:45	
Iron	mg/L	ND	0.040	0.025	02/19/24 21:45	
Magnesium	mg/L	ND	0.050	0.012	02/19/24 21:45	
Potassium	mg/L	ND	0.50	0.15	02/19/24 21:45	
Sodium	mg/L	ND	1.0	0.58	02/19/24 21:45	

LABORATORY CONTROL SAMPLE: 4293963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Iron	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293964 4293965

Parameter	Units	92710944017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	118	1	1	111	114	-740	-453	75-125	3	20	M1
Iron	mg/L	0.086	1	1	1.0	1.1	94	100	75-125	6	20	
Magnesium	mg/L	40.8	1	1	38.2	38.8	-255	-197	75-125	1	20	M1
Potassium	mg/L	11.5	1	1	11.5	11.7	5	22	75-125	1	20	M1
Sodium	mg/L	29.0	1	1	27.2	27.4	-179	-152	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829899 | Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A | Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010

METHOD BLANK: 4289474 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/07/24 13:39	
Arsenic	mg/L	ND	0.0050	0.00084	02/07/24 13:39	
Barium	mg/L	ND	0.0050	0.00047	02/07/24 13:39	
Beryllium	mg/L	ND	0.00050	0.000094	02/07/24 13:39	
Boron	mg/L	ND	0.040	0.012	02/07/24 13:39	
Cadmium	mg/L	ND	0.00050	0.00010	02/07/24 13:39	
Chromium	mg/L	ND	0.0050	0.0019	02/07/24 13:39	
Cobalt	mg/L	ND	0.0050	0.00032	02/07/24 13:39	
Lead	mg/L	ND	0.0010	0.00016	02/07/24 13:39	
Lithium	mg/L	ND	0.030	0.0016	02/07/24 13:39	
Molybdenum	mg/L	ND	0.010	0.00062	02/07/24 13:39	
Selenium	mg/L	ND	0.0050	0.00096	02/07/24 13:39	
Thallium	mg/L	ND	0.0010	0.00038	02/07/24 13:39	

LABORATORY CONTROL SAMPLE: 4289475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289476 4289477

Parameter	Units	92711015007 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	0.099	0.10	99	100	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289476 4289477

Parameter	Units	92711015007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.054	0.1	0.1	0.15	0.16	100	103	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.091	90	91	75-125	1	20	
Boron	mg/L	0.023J	1	1	0.96	0.96	94	94	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	ND	0.1	0.1	0.099	0.10	98	101	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.093	0.094	92	93	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829900
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

METHOD BLANK: 4289478 Matrix: Water
Associated Lab Samples: 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/06/24 16:40	
Arsenic	mg/L	ND	0.0050	0.00084	02/06/24 16:40	
Barium	mg/L	ND	0.0050	0.00047	02/06/24 16:40	
Beryllium	mg/L	ND	0.00050	0.000094	02/06/24 16:40	
Boron	mg/L	ND	0.040	0.012	02/06/24 16:40	
Cadmium	mg/L	ND	0.00050	0.00010	02/06/24 16:40	
Chromium	mg/L	ND	0.0050	0.0019	02/06/24 16:40	
Cobalt	mg/L	ND	0.0050	0.00032	02/06/24 16:40	
Lead	mg/L	ND	0.0010	0.00016	02/06/24 16:40	
Lithium	mg/L	ND	0.030	0.0016	02/06/24 16:40	
Molybdenum	mg/L	ND	0.010	0.00062	02/06/24 16:40	
Selenium	mg/L	ND	0.0050	0.00096	02/06/24 16:40	
Thallium	mg/L	ND	0.0010	0.00038	02/06/24 16:40	

LABORATORY CONTROL SAMPLE: 4289479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	101	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	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289480 4289481

Parameter	Units	92710944012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00062J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289480 4289481

Parameter	Units	92710944012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.071	0.1	0.1	0.17	0.17	101	96	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	1	20	
Boron	mg/L	1.3	1	1	2.2	2.2	91	85	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.099	105	98	75-125	7	20	
Cobalt	mg/L	0.0026J	0.1	0.1	0.10	0.10	100	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Lithium	mg/L	0.015J	0.1	0.1	0.10	0.11	89	90	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830823
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4294179 Matrix: Water
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/16/24 13:29	
Arsenic	mg/L	ND	0.0050	0.00084	02/16/24 13:29	
Barium	mg/L	ND	0.0050	0.00047	02/16/24 13:29	
Beryllium	mg/L	ND	0.00050	0.000094	02/16/24 13:29	
Boron	mg/L	ND	0.040	0.012	02/16/24 13:29	
Cadmium	mg/L	ND	0.00050	0.00010	02/16/24 13:29	
Chromium	mg/L	ND	0.0050	0.0019	02/16/24 13:29	
Cobalt	mg/L	ND	0.0050	0.00032	02/16/24 13:29	
Lead	mg/L	ND	0.0010	0.00016	02/16/24 13:29	
Lithium	mg/L	ND	0.030	0.0016	02/16/24 13:29	
Molybdenum	mg/L	ND	0.010	0.00062	02/16/24 13:29	
Selenium	mg/L	ND	0.0050	0.00096	02/16/24 13:29	
Thallium	mg/L	ND	0.0010	0.00038	02/16/24 13:29	

LABORATORY CONTROL SAMPLE: 4294180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	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	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294181 4294182

Parameter	Units	92710944024 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	0.11	0.11	107	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294181 4294182

Parameter	Units	92710944024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Barium	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	0.012J	1	1	0.99	1.0	98	101	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.096	98	96	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	105	101	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	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	0.10	0.10	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 832509
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016, 92710944017, 92710944018

METHOD BLANK: 4302153 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016, 92710944017, 92710944018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/24 13:28	

LABORATORY CONTROL SAMPLE: 4302154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4302155 4302156

Parameter	Units	92710944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00015J	0.0025	0.0025	0.0021	0.0023	76	86	75-125	11	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 832524
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4302186 Matrix: Water
Associated Lab Samples: 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/24 16:28	

LABORATORY CONTROL SAMPLE: 4302187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4302188 4302189

Parameter	Units	92710944019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830324
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011

METHOD BLANK: 4291303 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 16:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 16:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 16:22	

LABORATORY CONTROL SAMPLE: 4291304

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: 4291305

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: 4291306 4291307

Parameter	Units	92710886015 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	41.3	39.7	83	79	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4291308 4291309

Parameter	Units	92710886016 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	51.1	50.9	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830412
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944012, 92710944013, 92710944014

METHOD BLANK: 4291899 Matrix: Water
Associated Lab Samples: 92710944012, 92710944013, 92710944014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 20:48	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 20:48	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 20:48	

LABORATORY CONTROL SAMPLE: 4291900

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: 4291901

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: 4291902 4291903

Parameter	Units	92710944013 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	14.4	50	50	65.9	65.7	103	103	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4291904 4291905

Parameter	Units	92710944014 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	34.4	50	50	84.4	84.6	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830623
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944015, 92710944016

METHOD BLANK: 4293114 Matrix: Water
Associated Lab Samples: 92710944015, 92710944016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/07/24 16:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/24 16:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/24 16:43	

LABORATORY CONTROL SAMPLE: 4293115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

LABORATORY CONTROL SAMPLE: 4293116

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: 4293117 4293118

Parameter	Units	92710886019 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	41.9	42.2	84	84	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293286 4293287

Parameter	Units	92711669003 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	180	50	50	224	221	88	82	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830909
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4294360 Matrix: Water
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/08/24 12:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/24 12:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/08/24 12:57	

LABORATORY CONTROL SAMPLE: 4294361

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: 4294362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294363 4294364

Parameter	Units	92711015032 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	51.5	51.3	102	101	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294365 4294366

Parameter	Units	92712026001 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	57.3	50	50	108	108	102	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829973 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011

METHOD BLANK: 4289665 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/24 12:45	

LABORATORY CONTROL SAMPLE: 4289666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	270	108	90-110	

SAMPLE DUPLICATE: 4289667

Parameter	Units	92711015015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	445	445	0	25	

SAMPLE DUPLICATE: 4289668

Parameter	Units	92710944010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	212	212	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830240 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

METHOD BLANK: 4290871 Matrix: Water
Associated Lab Samples: 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/06/24 13:37	

LABORATORY CONTROL SAMPLE: 4290872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	248	99	90-110	

SAMPLE DUPLICATE: 4290873

Parameter	Units	92710886014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	656	665	1	25	

SAMPLE DUPLICATE: 4290874

Parameter	Units	92711663003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	48.0	6	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830915 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4294386 Matrix: Water
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/08/24 13:39	

LABORATORY CONTROL SAMPLE: 4294387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	268	107	90-110	

SAMPLE DUPLICATE: 4294389

Parameter	Units	92710944022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	864	886	3	25	

SAMPLE DUPLICATE: 4300660

Parameter	Units	92711928002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	953	929	3	25	H1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830837
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011

METHOD BLANK: 4294225 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007, 92710944008, 92710944009, 92710944010, 92710944011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/24 06:05	

LABORATORY CONTROL SAMPLE: 4294226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294227 4294228

Parameter	Units	92711015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	102	107	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294229 4294230

Parameter	Units	92710944006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.48	94	96	80-120	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830839
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

METHOD BLANK: 4294234 Matrix: Water
Associated Lab Samples: 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/24 06:18	

LABORATORY CONTROL SAMPLE: 4294235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294236 4294237

Parameter	Units	92710886010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.45	0.48	90	95	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294238 4294239

Parameter	Units	92710944013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.50	98	100	80-120	3	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 831203
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4295980 Matrix: Water
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/09/24 02:08	

LABORATORY CONTROL SAMPLE: 4295981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295982 4295983

Parameter	Units	92711015033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.52	96	104	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295984 4295985

Parameter	Units	92710944025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.48	97	96	80-120	2	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829908
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007

METHOD BLANK: 4289503 Matrix: Water
Associated Lab Samples: 92710944004, 92710944005, 92710944006, 92710944007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/24 12:48	
Fluoride	mg/L	ND	0.10	0.050	02/03/24 12:48	
Sulfate	mg/L	ND	1.0	0.50	02/03/24 12:48	

LABORATORY CONTROL SAMPLE: 4289504

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	2.4	96	90-110	
Sulfate	mg/L	50	49.4	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289505 4289506

Parameter	Units	92711342001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	57.3	50	50	101	101	87	87	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	89	93	90-110	4	10	M1
Sulfate	mg/L	61.6	50	50	104	104	85	85	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289507 4289508

Parameter	Units	92711015014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.5	50	50	70.0	70.3	103	104	90-110	1	10	
Fluoride	mg/L	0.072J	2.5	2.5	2.4	2.4	93	94	90-110	1	10	
Sulfate	mg/L	551	50	50	594	590	86	77	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 829909
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944008, 92710944009, 92710944010, 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

METHOD BLANK: 4289509 Matrix: Water
Associated Lab Samples: 92710944008, 92710944009, 92710944010, 92710944011, 92710944012, 92710944013, 92710944014, 92710944015, 92710944016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/24 20:43	
Fluoride	mg/L	ND	0.10	0.050	02/03/24 20:43	
Sulfate	mg/L	ND	1.0	0.50	02/03/24 20:43	

LABORATORY CONTROL SAMPLE: 4289510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289511 4289512

Parameter	Units	92710944008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.9	50	50	79.7	80.5	101	103	90-110	1	10	
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	100	102	90-110	2	10	
Sulfate	mg/L	337	50	50	378	379	82	84	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289513 4289514

Parameter	Units	92710958002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	50	50	54.6	55.4	103	105	90-110	1	10	
Fluoride	mg/L	0.29	2.5	2.5	2.7	2.8	97	98	90-110	2	10	
Sulfate	mg/L	15.5	50	50	67.2	68.0	103	105	90-110	1	10	

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QUALITY CONTROL DATA

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

QC Batch: 830748
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

METHOD BLANK: 4293725 Matrix: Water
Associated Lab Samples: 92710944017, 92710944018, 92710944019, 92710944020, 92710944021, 92710944022, 92710944023, 92710944024, 92710944025, 92710944026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/24 21:00	
Fluoride	mg/L	ND	0.10	0.050	02/07/24 21:00	
Sulfate	mg/L	ND	1.0	0.50	02/07/24 21:00	

LABORATORY CONTROL SAMPLE: 4293726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293727 4293728

Parameter	Units	92710944017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.9	50	50	59.3	60.9	101	104	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	107	109	90-110	2	10	
Sulfate	mg/L	433	50	50	479	480	91	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293729 4293730

Parameter	Units	92710886021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.0	50	50	68.8	69.9	102	104	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	3.1	3.0	122	117	90-110	4	10	M1
Sulfate	mg/L	261	50	50	303	306	85	90	90-110	1	10	M1

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QUALIFIERS

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

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

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710944004	**MCD-B-63**	EPA 3010A	829905	EPA 6010D	829934
92710944005	**MCD-B-66**	EPA 3010A	829905	EPA 6010D	829934
92710944006	**MCD-B-82**	EPA 3010A	829905	EPA 6010D	829934
92710944007	**MCD-B-122D**	EPA 3010A	829905	EPA 6010D	829934
92710944008	**MCD-B-108D**	EPA 3010A	829905	EPA 6010D	829934
92710944009	**MCD-B-107D**	EPA 3010A	829905	EPA 6010D	829934
92710944010	**MCD-B-83**	EPA 3010A	829905	EPA 6010D	829934
92710944011	**MCD-AP234-FD-4**	EPA 3010A	829906	EPA 6010D	829935
92710944012	**MCD-B-101D**	EPA 3010A	829906	EPA 6010D	829935
92710944013	**MCD-B-102D**	EPA 3010A	829906	EPA 6010D	829935
92710944014	**MCD-B-106D**	EPA 3010A	829906	EPA 6010D	829935
92710944015	**MCD-AP234-FB-4**	EPA 3010A	829906	EPA 6010D	829935
92710944016	**MCD-AP234-FD-5**	EPA 3010A	829906	EPA 6010D	829935
92710944017	**MCD-B-88**	EPA 3010A	830786	EPA 6010D	830817
92710944018	**MCD-B-120D**	EPA 3010A	830786	EPA 6010D	830817
92710944019	**MCD-B-77**	EPA 3010A	830786	EPA 6010D	830817
92710944020	**MCD-B-104D**	EPA 3010A	830786	EPA 6010D	830817
92710944021	**MCD-B-111D**	EPA 3010A	830786	EPA 6010D	830817
92710944022	**MCD-B-125D**	EPA 3010A	830786	EPA 6010D	830817
92710944023	**MCD-B-56**	EPA 3010A	830786	EPA 6010D	830817
92710944024	**MCD-AP234-EB-4**	EPA 3010A	830786	EPA 6010D	830817
92710944025	**MCD-AP234-EB-5**	EPA 3010A	830786	EPA 6010D	830817
92710944026	**MCD-AP234-FB-5**	EPA 3010A	830786	EPA 6010D	830817
92710944004	**MCD-B-63**	EPA 3005A	829899	EPA 6020B	829944
92710944005	**MCD-B-66**	EPA 3005A	829899	EPA 6020B	829944
92710944006	**MCD-B-82**	EPA 3005A	829899	EPA 6020B	829944
92710944007	**MCD-B-122D**	EPA 3005A	829899	EPA 6020B	829944
92710944008	**MCD-B-108D**	EPA 3005A	829899	EPA 6020B	829944
92710944009	**MCD-B-107D**	EPA 3005A	829899	EPA 6020B	829944
92710944010	**MCD-B-83**	EPA 3005A	829899	EPA 6020B	829944
92710944011	**MCD-AP234-FD-4**	EPA 3005A	829900	EPA 6020B	829945
92710944012	**MCD-B-101D**	EPA 3005A	829900	EPA 6020B	829945
92710944013	**MCD-B-102D**	EPA 3005A	829900	EPA 6020B	829945
92710944014	**MCD-B-106D**	EPA 3005A	829900	EPA 6020B	829945
92710944015	**MCD-AP234-FB-4**	EPA 3005A	829900	EPA 6020B	829945
92710944016	**MCD-AP234-FD-5**	EPA 3005A	829900	EPA 6020B	829945
92710944017	**MCD-B-88**	EPA 3005A	830823	EPA 6020B	831155
92710944018	**MCD-B-120D**	EPA 3005A	830823	EPA 6020B	831155
92710944019	**MCD-B-77**	EPA 3005A	830823	EPA 6020B	831155
92710944020	**MCD-B-104D**	EPA 3005A	830823	EPA 6020B	831155
92710944021	**MCD-B-111D**	EPA 3005A	830823	EPA 6020B	831155
92710944022	**MCD-B-125D**	EPA 3005A	830823	EPA 6020B	831155
92710944023	**MCD-B-56**	EPA 3005A	830823	EPA 6020B	831155
92710944024	**MCD-AP234-EB-4**	EPA 3005A	830823	EPA 6020B	831155
92710944025	**MCD-AP234-EB-5**	EPA 3005A	830823	EPA 6020B	831155
92710944026	**MCD-AP234-FB-5**	EPA 3005A	830823	EPA 6020B	831155

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710944004	**MCD-B-63**	EPA 7470A	832509	EPA 7470A	832596
92710944005	**MCD-B-66**	EPA 7470A	832509	EPA 7470A	832596
92710944006	**MCD-B-82**	EPA 7470A	832509	EPA 7470A	832596
92710944007	**MCD-B-122D**	EPA 7470A	832509	EPA 7470A	832596
92710944008	**MCD-B-108D**	EPA 7470A	832509	EPA 7470A	832596
92710944009	**MCD-B-107D**	EPA 7470A	832509	EPA 7470A	832596
92710944010	**MCD-B-83**	EPA 7470A	832509	EPA 7470A	832596
92710944011	**MCD-AP234-FD-4**	EPA 7470A	832509	EPA 7470A	832596
92710944012	**MCD-B-101D**	EPA 7470A	832509	EPA 7470A	832596
92710944013	**MCD-B-102D**	EPA 7470A	832509	EPA 7470A	832596
92710944014	**MCD-B-106D**	EPA 7470A	832509	EPA 7470A	832596
92710944015	**MCD-AP234-FB-4**	EPA 7470A	832509	EPA 7470A	832596
92710944016	**MCD-AP234-FD-5**	EPA 7470A	832509	EPA 7470A	832596
92710944017	**MCD-B-88**	EPA 7470A	832509	EPA 7470A	832596
92710944018	**MCD-B-120D**	EPA 7470A	832509	EPA 7470A	832596
92710944019	**MCD-B-77**	EPA 7470A	832524	EPA 7470A	832657
92710944020	**MCD-B-104D**	EPA 7470A	832524	EPA 7470A	832657
92710944021	**MCD-B-111D**	EPA 7470A	832524	EPA 7470A	832657
92710944022	**MCD-B-125D**	EPA 7470A	832524	EPA 7470A	832657
92710944023	**MCD-B-56**	EPA 7470A	832524	EPA 7470A	832657
92710944024	**MCD-AP234-EB-4**	EPA 7470A	832524	EPA 7470A	832657
92710944025	**MCD-AP234-EB-5**	EPA 7470A	832524	EPA 7470A	832657
92710944026	**MCD-AP234-FB-5**	EPA 7470A	832524	EPA 7470A	832657
92710944004	**MCD-B-63**	SM 2320B-2011	830324		
92710944005	**MCD-B-66**	SM 2320B-2011	830324		
92710944006	**MCD-B-82**	SM 2320B-2011	830324		
92710944007	**MCD-B-122D**	SM 2320B-2011	830324		
92710944008	**MCD-B-108D**	SM 2320B-2011	830324		
92710944009	**MCD-B-107D**	SM 2320B-2011	830324		
92710944010	**MCD-B-83**	SM 2320B-2011	830324		
92710944011	**MCD-AP234-FD-4**	SM 2320B-2011	830324		
92710944012	**MCD-B-101D**	SM 2320B-2011	830412		
92710944013	**MCD-B-102D**	SM 2320B-2011	830412		
92710944014	**MCD-B-106D**	SM 2320B-2011	830412		
92710944015	**MCD-AP234-FB-4**	SM 2320B-2011	830623		
92710944016	**MCD-AP234-FD-5**	SM 2320B-2011	830623		
92710944017	**MCD-B-88**	SM 2320B-2011	830909		
92710944018	**MCD-B-120D**	SM 2320B-2011	830909		
92710944019	**MCD-B-77**	SM 2320B-2011	830909		
92710944020	**MCD-B-104D**	SM 2320B-2011	830909		
92710944021	**MCD-B-111D**	SM 2320B-2011	830909		
92710944022	**MCD-B-125D**	SM 2320B-2011	830909		
92710944023	**MCD-B-56**	SM 2320B-2011	830909		
92710944024	**MCD-AP234-EB-4**	SM 2320B-2011	830909		
92710944025	**MCD-AP234-EB-5**	SM 2320B-2011	830909		
92710944026	**MCD-AP234-FB-5**	SM 2320B-2011	830909		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710944004	**MCD-B-63**	SM 2540C-2015	829973		
92710944005	**MCD-B-66**	SM 2540C-2015	829973		
92710944006	**MCD-B-82**	SM 2540C-2015	829973		
92710944007	**MCD-B-122D**	SM 2540C-2015	829973		
92710944008	**MCD-B-108D**	SM 2540C-2015	829973		
92710944009	**MCD-B-107D**	SM 2540C-2015	829973		
92710944010	**MCD-B-83**	SM 2540C-2015	829973		
92710944011	**MCD-AP234-FD-4**	SM 2540C-2015	829973		
92710944012	**MCD-B-101D**	SM 2540C-2015	830240		
92710944013	**MCD-B-102D**	SM 2540C-2015	830240		
92710944014	**MCD-B-106D**	SM 2540C-2015	830240		
92710944015	**MCD-AP234-FB-4**	SM 2540C-2015	830240		
92710944016	**MCD-AP234-FD-5**	SM 2540C-2015	830240		
92710944017	**MCD-B-88**	SM 2540C-2015	830915		
92710944018	**MCD-B-120D**	SM 2540C-2015	830915		
92710944019	**MCD-B-77**	SM 2540C-2015	830915		
92710944020	**MCD-B-104D**	SM 2540C-2015	830915		
92710944021	**MCD-B-111D**	SM 2540C-2015	830915		
92710944022	**MCD-B-125D**	SM 2540C-2015	830915		
92710944023	**MCD-B-56**	SM 2540C-2015	830915		
92710944024	**MCD-AP234-EB-4**	SM 2540C-2015	830915		
92710944025	**MCD-AP234-EB-5**	SM 2540C-2015	830915		
92710944026	**MCD-AP234-FB-5**	SM 2540C-2015	830915		
92710944004	**MCD-B-63**	SM 4500-S2D-2011	830837		
92710944005	**MCD-B-66**	SM 4500-S2D-2011	830837		
92710944006	**MCD-B-82**	SM 4500-S2D-2011	830837		
92710944007	**MCD-B-122D**	SM 4500-S2D-2011	830837		
92710944008	**MCD-B-108D**	SM 4500-S2D-2011	830837		
92710944009	**MCD-B-107D**	SM 4500-S2D-2011	830837		
92710944010	**MCD-B-83**	SM 4500-S2D-2011	830837		
92710944011	**MCD-AP234-FD-4**	SM 4500-S2D-2011	830837		
92710944012	**MCD-B-101D**	SM 4500-S2D-2011	830839		
92710944013	**MCD-B-102D**	SM 4500-S2D-2011	830839		
92710944014	**MCD-B-106D**	SM 4500-S2D-2011	830839		
92710944015	**MCD-AP234-FB-4**	SM 4500-S2D-2011	830839		
92710944016	**MCD-AP234-FD-5**	SM 4500-S2D-2011	830839		
92710944017	**MCD-B-88**	SM 4500-S2D-2011	831203		
92710944018	**MCD-B-120D**	SM 4500-S2D-2011	831203		
92710944019	**MCD-B-77**	SM 4500-S2D-2011	831203		
92710944020	**MCD-B-104D**	SM 4500-S2D-2011	831203		
92710944021	**MCD-B-111D**	SM 4500-S2D-2011	831203		
92710944022	**MCD-B-125D**	SM 4500-S2D-2011	831203		
92710944023	**MCD-B-56**	SM 4500-S2D-2011	831203		
92710944024	**MCD-AP234-EB-4**	SM 4500-S2D-2011	831203		
92710944025	**MCD-AP234-EB-5**	SM 4500-S2D-2011	831203		
92710944026	**MCD-AP234-FB-5**	SM 4500-S2D-2011	831203		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessment
Pace Project No.: 92710944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710944004	**MCD-B-63**	EPA 300.0 Rev 2.1 1993	829908		
92710944005	**MCD-B-66**	EPA 300.0 Rev 2.1 1993	829908		
92710944006	**MCD-B-82**	EPA 300.0 Rev 2.1 1993	829908		
92710944007	**MCD-B-122D**	EPA 300.0 Rev 2.1 1993	829908		
92710944008	**MCD-B-108D**	EPA 300.0 Rev 2.1 1993	829909		
92710944009	**MCD-B-107D**	EPA 300.0 Rev 2.1 1993	829909		
92710944010	**MCD-B-83**	EPA 300.0 Rev 2.1 1993	829909		
92710944011	**MCD-AP234-FD-4**	EPA 300.0 Rev 2.1 1993	829909		
92710944012	**MCD-B-101D**	EPA 300.0 Rev 2.1 1993	829909		
92710944013	**MCD-B-102D**	EPA 300.0 Rev 2.1 1993	829909		
92710944014	**MCD-B-106D**	EPA 300.0 Rev 2.1 1993	829909		
92710944015	**MCD-AP234-FB-4**	EPA 300.0 Rev 2.1 1993	829909		
92710944016	**MCD-AP234-FD-5**	EPA 300.0 Rev 2.1 1993	829909		
92710944017	**MCD-B-88**	EPA 300.0 Rev 2.1 1993	830748		
92710944018	**MCD-B-120D**	EPA 300.0 Rev 2.1 1993	830748		
92710944019	**MCD-B-77**	EPA 300.0 Rev 2.1 1993	830748		
92710944020	**MCD-B-104D**	EPA 300.0 Rev 2.1 1993	830748		
92710944021	**MCD-B-111D**	EPA 300.0 Rev 2.1 1993	830748		
92710944022	**MCD-B-125D**	EPA 300.0 Rev 2.1 1993	830748		
92710944023	**MCD-B-56**	EPA 300.0 Rev 2.1 1993	830748		
92710944024	**MCD-AP234-EB-4**	EPA 300.0 Rev 2.1 1993	830748		
92710944025	**MCD-AP234-EB-5**	EPA 300.0 Rev 2.1 1993	830748		
92710944026	**MCD-AP234-FB-5**	EPA 300.0 Rev 2.1 1993	830748		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO# : 92710944

PM: BV Due Date: 02/14/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/12/24 SC

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: 1.1 **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): 1.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

Qualtrax ID: 69614

**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#: 92710944

PM: BV Due Date: 02/14/24

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)	BP1U	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7		2	1			1	1																		2				
8		2	1			1	1																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency	State / Location
	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide			Residual Chlorine (Y/N)	92710944
	Requested Analysis Filtered (Y/N)															Y/N	N	N	N	N	N	N				
1	MCD-B-63	WG	G	2/1/24	13:14		7	3		3		1					X	X	X	X	X	X				004
2	MCD-B-66	WG	G	2/1/24	10:47		7	3		3		1					X	X	X	X	X	X				005
3	MCD-B-82	WG	G	2/1/24	12:17		9	3		5		1					X	X	X	X	X	X				006 Extra Rads
4	MCD-B-122D	WG	G	2/1/24	10:48		7	3		3		1					X	X	X	X	X	X				007
5	MCD-B-108D	WG	G	2/1/24	15:22		7	3		3		1					X	X	X	X	X	X				008
6	MCD-B-107D	WG	G	2/1/24	15:57		7	3		3		1					X	X	X	X	X	X				009
7	MCD-B-83	WG	G	2/1/24	15:51		7	3		3		1					X	X	X	X	X	X				010
8	MCD-AP234-FD-4	WQ	G	2/1/24	--		7	3		3		1					X	X	X	X	X	X				011
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARY HANN/WSP	2/2/24	1417	Pace	2/2/24	1417

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 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO#: 92710944**

PM: BV **Due Date: 02/14/24**

CLIENT: 92-GA Power

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/2/24 SC

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: 1.1 **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): 1.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

WO# : 92710944

Project #

PM: BV Due Date: 02/14/24

CLIENT: 92-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 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)	13PIN	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																		N				
2		2	1			1	1																		X				
3		2	1			1	1																		X				
4		2	1			1	1																		X				
5		2	1			1	1																		X				
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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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-234 Assessment	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710944
																Y/N	N	N	N	N	N	N		
1	MCD-B-101D	WG	G	2/2/24	10:46		7	3		3		1					X	X	X	X	X	X		012
2	MCD-B-102D	WG	G	2/2/24	9:26		9	3		5		1					X	X	X	X	X	X		013 Extra Rads
3	MCD-B-106D	WG	G	2/2/24	9:43		7	3		3		1					X	X	X	X	X	X		014
4	MCD-AP234-FB-4	WQ	G	2/2/24	9:00		7	3		3		1					X	X	X	X	X	X		015
5	MCD-AP234-FD-5	WQ	G	2/2/24	--		7	3		3		1					X	X	X	X	X	X		016
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	2/2/24	1417	/ Pace	2/2/24	1417

DATE Signed:

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

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Residuals

Project #: WO#: 92710944

PM: BV Due Date: 02/14/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/6/24 ow

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

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

Cooler Temp: 5.4 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.3

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

***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#: 92710944

PM: BV Due Date: 02/14/24

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)	BP1N	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92710944
																Y/N	N	N	N	N	N	N					
1	MCD-B-88	WG	G	2/5/24	10:08		7	3		3		1					X	X	X	X	X	X					017
2	MCD-B-120D	WG	G	2/5/24	12:58		7	3		3		1					X	X	X	X	X	X					018
3	MCD-B-77	WG	G	2/5/24	13:59		7	3		5		1					X	X	X	X	X	X					019
4	MCD-B-104D	WG	G	2/5/24	16:06		7	3		3		1					X	X	X	X	X	X					020
5	MCD-B-111D	WG	G	2/5/24	13:55		7	3		3		1					X	X	X	X	X	X					021
6	MCD-B-125D	WG	G	2/5/24	13:40		7	3		3		1					X	X	X	X	X	X					022
7	MCD-B-56	WG	G	2/5/24	16:36		7	3		3		1					X	X	X	X	X	X					023
8	MCD-AP234-EB-4	WQ	G	2/5/24	15:15		7	3		3		1					X	X	X	X	X	X					024
9	MCD-AP234-EB-5	WQ	G	2/5/24	11:20		7	3		3		1					X	X	X	X	X	X					025
10	MCD-AP234-FB-5	WQ	G	2/5/24	14:40		7	3		3		1					X	X	X	X	X	X					026
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / GPC / NWP	02/06/24	1355		2/6/24 1355	

DATE Signed:

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 09, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD Background
Pace Project No.: 92710968

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2024. 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,

Taylor M Cannon for
Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McD Background
Pace Project No.: 92710968

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant McD Background
Pace Project No.: 92710968

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710968001	**MCD-DGWA-53**	Water	01/30/24 11:19	01/31/24 09:28
92710968002	**MCD-DGWA-71**	Water	01/30/24 12:59	01/31/24 09:28

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SAMPLE ANALYTE COUNT

Project: Plant McD Background
Pace Project No.: 92710968

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92710968001	**MCD-DGWA-53**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710968002	**MCD-DGWA-71**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92710968

Sample: MCD-DGWA-53 **Lab ID: 92710968001** Collected: 01/30/24 11:19 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**10.1**	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 03:05	7439-89-6	
Potassium	**3.6**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 03:05	7440-09-7	
Calcium	**13.7**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 03:05	7440-70-2	
Magnesium	**4.7**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 03:05	7439-95-4	
Sodium	**6.3**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 01:46	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/01/24 10:22	02/01/24 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 19:35	7440-38-2	
Barium	**0.096**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 19:35	7440-41-7	
Boron	**0.065**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 19:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 19:35	7440-47-3	
Cobalt	**0.0083**	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 19:35	7439-92-1	
Lithium	**0.0087J**	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 19:35	7439-93-2	
Molybdenum	**0.025**	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 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	02/08/24 13:00	02/08/24 16:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**66.5**	mg/L	5.0	5.0	1		02/05/24 16:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 16:13		
Alkalinity, Total as CaCO3	**66.5**	mg/L	5.0	5.0	1		02/05/24 16:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**130**	mg/L	25.0	25.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/01/24 06:26	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		02/02/24 00:34	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		02/02/24 00:34	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92710968

Sample: MCD-DGWA-53 **Lab ID: 92710968001** Collected: 01/30/24 11:19 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**13.4**	mg/L	1.0	0.50	1		02/02/24 00:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92710968

Sample: MCD-DGWA-71 **Lab ID: 92710968002** Collected: 01/30/24 12:59 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**7.8**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 01:51	7440-23-5	
Iron	ND	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 03:10	7439-89-6	
Potassium	**0.81**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 03:10	7440-09-7	
Calcium	**6.1**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 03:10	7440-70-2	
Magnesium	**0.91**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 03:10	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	0.00054	1	02/01/24 10:22	02/01/24 19:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 19:39	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 19:39	7440-39-3	
Beryllium	**0.000098J**	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 19:39	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 19:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 19:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 19:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 19:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 19:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 19:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 19:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 19:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 19:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/24 13:00	02/08/24 16:52	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.8**	mg/L	5.0	5.0	1		02/05/24 16:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 16:32		
Alkalinity, Total as CaCO3	**17.8**	mg/L	5.0	5.0	1		02/05/24 16:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**86.0**	mg/L	25.0	25.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/01/24 06:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.2**	mg/L	1.0	0.60	1		02/02/24 01:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/02/24 01:55	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD Background
Pace Project No.: 92710968

Sample: MCD-DGWA-71 **Lab ID: 92710968002** Collected: 01/30/24 12:59 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**7.9**	mg/L	1.0	0.50	1		02/02/24 01:55	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 829488
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4287316 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/06/24 01:47	
Iron	mg/L	ND	0.040	0.025	02/06/24 01:47	
Magnesium	mg/L	ND	0.050	0.012	02/06/24 01:47	
Potassium	mg/L	ND	0.50	0.15	02/06/24 01:47	
Sodium	mg/L	ND	1.0	0.58	02/06/24 01:47	

LABORATORY CONTROL SAMPLE: 4287317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	
Iron	mg/L	1	0.98	98	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287318 4287319

Parameter	Units	92710944002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	140	1	1	137	137	-336	-322	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.90	0.86	90	86	75-125	5	20	
Magnesium	mg/L	26.0	1	1	26.3	26.2	34	26	75-125	0	20	M1
Potassium	mg/L	6.6	1	1	7.5	7.5	86	90	75-125	0	20	
Sodium	mg/L	29.2	1	1	30.2	30.2	95	93	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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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 829343
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4286710 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/01/24 18:02	
Arsenic	mg/L	ND	0.0050	0.00084	02/01/24 18:02	
Barium	mg/L	ND	0.0050	0.00047	02/01/24 18:02	
Beryllium	mg/L	ND	0.00050	0.000094	02/01/24 18:02	
Boron	mg/L	ND	0.040	0.012	02/01/24 18:02	
Cadmium	mg/L	ND	0.00050	0.00010	02/01/24 18:02	
Chromium	mg/L	ND	0.0050	0.0019	02/01/24 18:02	
Cobalt	mg/L	ND	0.0050	0.00032	02/01/24 18:02	
Lead	mg/L	ND	0.0010	0.00016	02/01/24 18:02	
Lithium	mg/L	ND	0.030	0.0016	02/01/24 18:02	
Molybdenum	mg/L	ND	0.010	0.00062	02/01/24 18:02	
Selenium	mg/L	ND	0.0050	0.00096	02/01/24 18:02	
Thallium	mg/L	ND	0.0010	0.00038	02/01/24 18:02	

LABORATORY CONTROL SAMPLE: 4286711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 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	0.096	98	96	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.020	0.1	0.1	0.12	0.11	98	93	75-125	5	20	
Beryllium	mg/L	0.0013	0.1	0.1	0.099	0.099	98	97	75-125	0	20	
Boron	mg/L	1.6	1	1	2.5	2.4	93	84	75-125	4	20	
Cadmium	mg/L	0.00046J	0.1	0.1	0.10	0.099	103	99	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	3	20	
Cobalt	mg/L	0.0022J	0.1	0.1	0.11	0.10	105	101	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20	
Lithium	mg/L	0.0047J	0.1	0.1	0.10	0.10	99	99	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	4	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.10	0.096	99	94	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.091	96	91	75-125	6	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 831019
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4294943 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/24 15:57	

LABORATORY CONTROL SAMPLE: 4294944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294945 4294946

Parameter	Units	92710939001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0027	102	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 830058
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4289999 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/05/24 15:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 15:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 15:37	

LABORATORY CONTROL SAMPLE: 4290000

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: 4290001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290002 4290003

Parameter	Units	92710958001 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	47.1	50	50	94.7	95.1	95	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290004 4290005

Parameter	Units	92710968001 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	66.5	50	50	117	119	102	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 829339
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4286695 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/01/24 11:52	

LABORATORY CONTROL SAMPLE: 4286696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4286697

Parameter	Units	92711023001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27.0	27.0	0	25	

SAMPLE DUPLICATE: 4286698

Parameter	Units	92710944003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	136	12	25	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 829293
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4286594 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/01/24 06:20	

LABORATORY CONTROL SAMPLE: 4286595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286596 4286597

Parameter	Units	92710443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.49	96	97	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286598 4286599

Parameter	Units	92710968002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.52	103	103	80-120	0	10	

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QUALITY CONTROL DATA

Project: Plant McD Background
Pace Project No.: 92710968

QC Batch: 829251
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710968001, 92710968002

METHOD BLANK: 4286390 Matrix: Water
Associated Lab Samples: 92710968001, 92710968002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/31/24 21:29	
Fluoride	mg/L	ND	0.10	0.050	01/31/24 21:29	
Sulfate	mg/L	ND	1.0	0.50	01/31/24 21:29	

LABORATORY CONTROL SAMPLE: 4286391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.9	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286392 4286393

Parameter	Units	92710726002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	36.6	50	50	78.9	80.2	85	87	90-110	2	10	M1
Fluoride	mg/L	0.90	2.5	2.5	2.7	2.8	73	76	90-110	3	10	M1
Sulfate	mg/L	178	50	50	226	228	96	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286394 4286395

Parameter	Units	92710939001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.5	50	50	52.6	53.3	88	90	90-110	1	10	M1
Fluoride	mg/L	0.078J	2.5	2.5	1.8	1.9	71	74	90-110	5	10	M1
Sulfate	mg/L	220	50	50	265	265	90	90	90-110	0	10	

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QUALIFIERS

Project: Plant McD Background
Pace Project No.: 92710968

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD Background
Pace Project No.: 92710968

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710968001	**MCD-DGWA-53**	EPA 3010A	829488	EPA 6010D	829578
92710968002	**MCD-DGWA-71**	EPA 3010A	829488	EPA 6010D	829578
92710968001	**MCD-DGWA-53**	EPA 3005A	829343	EPA 6020B	829504
92710968002	**MCD-DGWA-71**	EPA 3005A	829343	EPA 6020B	829504
92710968001	**MCD-DGWA-53**	EPA 7470A	831019	EPA 7470A	831089
92710968002	**MCD-DGWA-71**	EPA 7470A	831019	EPA 7470A	831089
92710968001	**MCD-DGWA-53**	SM 2320B-2011	830058		
92710968002	**MCD-DGWA-71**	SM 2320B-2011	830058		
92710968001	**MCD-DGWA-53**	SM 2540C-2015	829339		
92710968002	**MCD-DGWA-71**	SM 2540C-2015	829339		
92710968001	**MCD-DGWA-53**	SM 4500-S2D-2011	829293		
92710968002	**MCD-DGWA-71**	SM 4500-S2D-2011	829293		
92710968001	**MCD-DGWA-53**	EPA 300.0 Rev 2.1 1993	829251		
92710968002	**MCD-DGWA-71**	EPA 300.0 Rev 2.1 1993	829251		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #:

WO# : 92710968

92710968

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 1/31/24

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: 2.3 **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): 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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:** _____

WO# : 92710968

PM: BV Due Date: 02/14/24

CLIENT: 92-GA Power

Project #

*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 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 ✓	1 ✓																	2 ✓				
2		2	1			1 ✓	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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com	
Address: 2480 Maner Road	Copy To: WSP	Company Name:	
Atlanta, GA 30339		Address:	Regulatory Agency
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:	
Phone: (470) 620-8176 Fax	Project Name: Plant McD Background	Pace Project Manager: Bonnie Vang	State / Location
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:	GA

SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: 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 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	
															Y/N	N	N	N	N	N	N					92716968
MCD-DGWA-53	WG	G	1/30/24	11:19		7	3		3		1					X	X	X	X	X	X					
MCD-DGWA-71	WG	G	1/30/24	12:59		7	3		3		1					X	X	X	X	X	X					

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	01/31/24	0840	Courier Pace	1/31	
					1/31/24	0928

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 01, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between January 31, 2024 and February 06, 2024. 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
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710974001	**MCD-DGWC-42**	Water	01/30/24 15:45	01/31/24 09:28
92710974002	**MCD-AP234-FD-2**	Water	01/30/24 00:00	01/31/24 09:28
92710974003	**MCD-DGWC-21**	Water	01/31/24 12:12	02/01/24 09:42
92710974004	**MCD-DGWC-22**	Water	01/31/24 14:02	02/01/24 09:42
92710974005	**MCD-DGWC-23**	Water	01/31/24 15:47	02/01/24 09:42
92710974006	**MCD-DGWC-13**	Water	01/31/24 16:05	02/01/24 09:42
92710974007	**MCD-AP234-FD-3**	Water	01/31/24 00:00	02/01/24 09:42
92710974008	**MCD-AP234-FB-2**	Water	01/31/24 14:15	02/01/24 09:42
92710974009	**MCD-DGWC-2**	Water	02/01/24 10:40	02/02/24 14:17
92710974010	**MCD-DGWC-4**	Water	02/01/24 12:15	02/02/24 14:17
92710974011	**MCD-DGWC-5**	Water	02/01/24 13:28	02/02/24 14:17
92710974012	**MCD-DGWC-8**	Water	02/01/24 14:38	02/02/24 14:17
92710974013	**MCD-DGWC-11**	Water	02/01/24 14:48	02/02/24 14:17
92710974014	**MCD-DGWC-19**	Water	02/01/24 14:38	02/02/24 14:17
92710974015	**MCD-DGWC-20**	Water	02/01/24 13:10	02/02/24 14:17
92710974016	**MCD-AP234-EB-2**	Water	02/01/24 15:20	02/02/24 14:17
92710974017	**MCD-AP234-EB-3**	Water	02/01/24 15:00	02/02/24 14:17
92710974018	**MCD-AP234-FB-3**	Water	02/01/24 12:15	02/02/24 14:17
92710974019	**MCD-DGWC-10**	Water	02/02/24 11:32	02/02/24 14:17
92710974020	**MCD-DGWC-12**	Water	02/02/24 11:51	02/02/24 14:17
92710974021	**MCD-DGWC-17**	Water	02/06/24 10:01	02/06/24 13:55
92710974022	**MCD-DGWC-47**	Water	02/05/24 10:35	02/06/24 13:55
92710974023	**MCD-DGWC-48**	Water	02/05/24 12:55	02/06/24 13:55
92710974024	**MCD-DGWC-15**	Water	02/05/24 10:53	02/06/24 13:55
92710974025	**MCD-DGWC-14**	Water	02/05/24 09:22	02/06/24 13:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92710974001	**MCD-DGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974002	**MCD-AP234-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974003	**MCD-DGWC-21**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974004	**MCD-DGWC-22**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974005	**MCD-DGWC-23**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974006	**MCD-DGWC-13**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974007	**MCD-AP234-FD-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974008	**MCD-AP234-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974009	**MCD-DGWC-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974010	**MCD-DGWC-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974011	**MCD-DGWC-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974012	**MCD-DGWC-8**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974013	**MCD-DGWC-11**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974014	**MCD-DGWC-19**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974015	**MCD-DGWC-20**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974016	**MCD-AP234-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974017	**MCD-AP234-EB-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974018	**MCD-AP234-FB-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974019	**MCD-DGWC-10**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974020	**MCD-DGWC-12**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974021	**MCD-DGWC-17**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974022	**MCD-DGWC-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974023	**MCD-DGWC-48**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974024	**MCD-DGWC-15**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710974025	**MCD-DGWC-14**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

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: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-42 **Lab ID: 92710974001** Collected: 01/30/24 15:45 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0460U ± 0.127 (0.304) C:77% T:NA**	pCi/L	02/15/24 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.776U ± 0.476 (0.892) C:82% T:75%**	pCi/L	02/14/24 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.822U ± 0.603 (1.20)**	pCi/L	02/16/24 11:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-AP234-FD-2 **Lab ID: 92710974002** Collected: 01/30/24 00:00 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0311U ± 0.0923 (0.225) C:93% T:NA**	pCi/L	02/15/24 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.504U ± 0.412 (0.818) C:81% T:76%**	pCi/L	02/14/24 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.535U ± 0.504 (1.04)**	pCi/L	02/16/24 11:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-21 **Lab ID: 92710974003** Collected: 01/31/24 12:12 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.121U ± 0.148 (0.307) C:87% T:NA**	pCi/L	02/20/24 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.421U ± 0.325 (0.629) C:82% T:85%**	pCi/L	02/14/24 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.542U ± 0.473 (0.936)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-22 **Lab ID: 92710974004** Collected: 01/31/24 14:02 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.131U ± 0.155 (0.322) C:86% T:NA**	pCi/L	02/20/24 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.264U ± 0.304 (0.632) C:78% T:81%**	pCi/L	02/14/24 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.395U ± 0.459 (0.954)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-23 **Lab ID: 92710974005** Collected: 01/31/24 15:47 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.108U ± 0.138 (0.291) C:88% T:NA**	pCi/L	02/20/24 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.989 ± 0.435 (0.696) C:84% T:79%**	pCi/L	02/14/24 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10 ± 0.573 (0.987)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-13 **Lab ID: 92710974006** Collected: 01/31/24 16:05 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.667 ± 0.268 (0.314) C:85% T:NA**	pCi/L	02/20/24 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.368U ± 0.436 (0.922) C:82% T:81%**	pCi/L	02/14/24 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.04U ± 0.704 (1.24)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-AP234-FD-3 **Lab ID: 92710974007** Collected: 01/31/24 00:00 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0535U ± 0.132 (0.317) C:85% T:NA**	pCi/L	02/20/24 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.420U ± 0.414 (0.854) C:84% T:83%**	pCi/L	02/14/24 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.474U ± 0.546 (1.17)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-AP234-FB-2 **Lab ID: 92710974008** Collected: 01/31/24 14:15 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.130U ± 0.158 (0.328) C:81% T:NA**	pCi/L	02/20/24 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.239U ± 0.365 (0.790) C:85% T:84%**	pCi/L	02/14/24 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.369U ± 0.523 (1.12)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-2 **Lab ID: 92710974009** Collected: 02/01/24 10:40 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.592 ± 0.257 (0.346) C:85% T:NA**	pCi/L	02/20/24 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.463U ± 0.309 (0.574) C:83% T:85%**	pCi/L	02/20/24 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.06 ± 0.566 (0.920)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-4 **Lab ID: 92710974010** Collected: 02/01/24 12:15 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.399 ± 0.213 (0.318) C:87% T:NA**	pCi/L	02/20/24 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.987 ± 0.424 (0.681) C:84% T:84%**	pCi/L	02/20/24 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.39 ± 0.637 (0.999)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-5 **Lab ID: 92710974011** Collected: 02/01/24 13:28 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.388 ± 0.204 (0.288) C:88% T:NA**	pCi/L	02/20/24 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.791U ± 0.471 (0.874) C:79% T:79%**	pCi/L	02/20/24 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18 ± 0.675 (1.16)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-8 **Lab ID: 92710974012** Collected: 02/01/24 14:38 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.204U ± 0.191 (0.379) C:84% T:NA**	pCi/L	02/20/24 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.979 ± 0.454 (0.745) C:81% T:80%**	pCi/L	02/20/24 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18 ± 0.645 (1.12)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-11 **Lab ID: 92710974013** Collected: 02/01/24 14:48 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0192U ± 0.104 (0.269) C:85% T:NA**	pCi/L	02/20/24 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0843U ± 0.262 (0.592) C:82% T:87%**	pCi/L	02/20/24 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.104U ± 0.366 (0.861)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-19 **Lab ID: 92710974014** Collected: 02/01/24 14:38 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0833U ± 0.129 (0.282) C:83% T:NA**	pCi/L	02/20/24 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.264U ± 0.354 (0.755) C:84% T:81%**	pCi/L	02/20/24 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.347U ± 0.483 (1.04)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-20 **Lab ID: 92710974015** Collected: 02/01/24 13:10 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.151U ± 0.156 (0.312) C:95% T:NA**	pCi/L	02/20/24 08:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.23 ± 0.472 (0.703) C:86% T:76%**	pCi/L	02/20/24 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.38 ± 0.628 (1.02)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-AP234-EB-2 **Lab ID: 92710974016** Collected: 02/01/24 15:20 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0290U ± 0.109 (0.274) C:92% T:NA**	pCi/L	02/20/24 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**3.35 ± 0.788 (0.521) C:87% T:87%**	pCi/L	02/20/24 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.38 ± 0.897 (0.795)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-AP234-EB-3 **Lab ID: 92710974017** Collected: 02/01/24 15:00 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0388U ± 0.115 (0.281) C:91% T:NA**	pCi/L	02/20/24 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.569U ± 0.329 (0.575) C:87% T:88%**	pCi/L	02/20/24 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.608U ± 0.444 (0.856)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-AP234-FB-3 **Lab ID: 92710974018** Collected: 02/01/24 12:15 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0342U ± 0.0948 (0.293) C:89% T:NA**	pCi/L	02/20/24 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.256U ± 0.311 (0.653) C:84% T:85%**	pCi/L	02/20/24 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.256U ± 0.406 (0.946)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-10 **Lab ID: 92710974019** Collected: 02/02/24 11:32 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.302 ± 0.173 (0.236) C:86% T:NA**	pCi/L	02/20/24 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.20 ± 0.469 (0.705) C:85% T:74%**	pCi/L	02/20/24 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.50 ± 0.642 (0.941)**	pCi/L	02/21/24 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-12 **Lab ID: 92710974020** Collected: 02/02/24 11:51 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.106U ± 0.247 (0.580) C:86% T:NA**	pCi/L	02/16/24 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.580U ± 0.345 (0.632) C:87% T:83%**	pCi/L	02/20/24 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.686U ± 0.592 (1.21)**	pCi/L	02/21/24 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-17 **Lab ID: 92710974021** Collected: 02/06/24 10:01 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.108U ± 0.117 (0.237) C:96% T:NA**	pCi/L	02/27/24 10:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.126U ± 0.417 (0.933) C:85% T:83%**	pCi/L	02/22/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.234U ± 0.534 (1.17)**	pCi/L	02/29/24 10:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-47 **Lab ID: 92710974022** Collected: 02/05/24 10:35 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.325 ± 0.162 (0.211) C:85% T:NA**	pCi/L	02/27/24 10:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.06 ± 0.479 (0.814) C:85% T:82%**	pCi/L	02/22/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.39 ± 0.641 (1.03)**	pCi/L	02/29/24 10:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-48 **Lab ID: 92710974023** Collected: 02/05/24 12:55 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.230U ± 0.145 (0.236) C:90% T:NA**	pCi/L	02/27/24 10:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.32 ± 0.455 (0.662) C:102% T:88%**	pCi/L	02/22/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.600 (0.898)**	pCi/L	02/29/24 10:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-15 **Lab ID: 92710974024** Collected: 02/05/24 10:53 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.152U ± 0.127 (0.233) C:89% T:NA**	pCi/L	02/27/24 10:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.546U ± 0.382 (0.745) C:91% T:91%**	pCi/L	02/22/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.698U ± 0.509 (0.978)**	pCi/L	02/29/24 10:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Sample: MCD-DGWC-14 **Lab ID: 92710974025** Collected: 02/05/24 09:22 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.188U ± 0.126 (0.200) C:90% T:NA**	pCi/L	02/27/24 10:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.463U ± 0.335 (0.650) C:90% T:87%**	pCi/L	02/22/24 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.651U ± 0.461 (0.850)**	pCi/L	02/29/24 10:48	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 646854
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974020

METHOD BLANK: 3151499 Matrix: Water
Associated Lab Samples: 92710974020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00280 ± 0.138 (0.384) C:90% T:NA	pCi/L	02/16/24 08:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 647678 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974021, 92710974022, 92710974023, 92710974024, 92710974025

METHOD BLANK: 3156333 Matrix: Water
Associated Lab Samples: 92710974021, 92710974022, 92710974023, 92710974024, 92710974025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.591 ± 0.314 (0.546) C:85% T:84%	pCi/L	02/22/24 11:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 647934 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974021, 92710974022, 92710974023, 92710974024, 92710974025

METHOD BLANK: 3157784 Matrix: Water
Associated Lab Samples: 92710974021, 92710974022, 92710974023, 92710974024, 92710974025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0340 ± 0.0895 (0.216) C:94% T:NA	pCi/L	02/27/24 10:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 646549
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974001, 92710974002

METHOD BLANK: 3149922
Matrix: Water
Associated Lab Samples: 92710974001, 92710974002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.178 ± 0.315 (0.689) C:84% T:86%	pCi/L	02/14/24 14:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 646776 | Analysis Method: EPA 9320
QC Batch Method: EPA 9320 | Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974003, 92710974004, 92710974005, 92710974006, 92710974007, 92710974008

METHOD BLANK: 3151068 Matrix: Water
Associated Lab Samples: 92710974003, 92710974004, 92710974005, 92710974006, 92710974007, 92710974008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.837 ± 0.399 (0.683) C:87% T:87%	pCi/L	02/14/24 11:46	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 646418
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974001, 92710974002

METHOD BLANK: 3149577 Matrix: Water
Associated Lab Samples: 92710974001, 92710974002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0659 ± 0.0944 (0.204) C:100% T:NA	pCi/L	02/15/24 08:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 646793 | Analysis Method: EPA 9315
QC Batch Method: EPA 9315 | Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92710974003, 92710974004, 92710974005, 92710974006, 92710974007, 92710974008, 92710974009, 92710974010, 92710974011, 92710974012, 92710974013, 92710974014, 92710974015, 92710974016, 92710974017, 92710974018, 92710974019

METHOD BLANK: 3151195 Matrix: Water

Associated Lab Samples: 92710974003, 92710974004, 92710974005, 92710974006, 92710974007, 92710974008, 92710974009, 92710974010, 92710974011, 92710974012, 92710974013, 92710974014, 92710974015, 92710974016, 92710974017, 92710974018, 92710974019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.142 (0.386) C:68% T:NA	pCi/L	02/20/24 09:14	

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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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

QC Batch: 646984 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710974009, 92710974010, 92710974011, 92710974012, 92710974013, 92710974014, 92710974015, 92710974016, 92710974017, 92710974018, 92710974019, 92710974020

METHOD BLANK: 3152356 Matrix: Water
Associated Lab Samples: 92710974009, 92710974010, 92710974011, 92710974012, 92710974013, 92710974014, 92710974015, 92710974016, 92710974017, 92710974018, 92710974019, 92710974020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.898 ± 0.401 (0.652) C:84% T:81%	pCi/L	02/20/24 11:21	

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

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710974001	**MCD-DGWC-42**	EPA 9315	646418		
92710974002	**MCD-AP234-FD-2**	EPA 9315	646418		
92710974003	**MCD-DGWC-21**	EPA 9315	646793		
92710974004	**MCD-DGWC-22**	EPA 9315	646793		
92710974005	**MCD-DGWC-23**	EPA 9315	646793		
92710974006	**MCD-DGWC-13**	EPA 9315	646793		
92710974007	**MCD-AP234-FD-3**	EPA 9315	646793		
92710974008	**MCD-AP234-FB-2**	EPA 9315	646793		
92710974009	**MCD-DGWC-2**	EPA 9315	646793		
92710974010	**MCD-DGWC-4**	EPA 9315	646793		
92710974011	**MCD-DGWC-5**	EPA 9315	646793		
92710974012	**MCD-DGWC-8**	EPA 9315	646793		
92710974013	**MCD-DGWC-11**	EPA 9315	646793		
92710974014	**MCD-DGWC-19**	EPA 9315	646793		
92710974015	**MCD-DGWC-20**	EPA 9315	646793		
92710974016	**MCD-AP234-EB-2**	EPA 9315	646793		
92710974017	**MCD-AP234-EB-3**	EPA 9315	646793		
92710974018	**MCD-AP234-FB-3**	EPA 9315	646793		
92710974019	**MCD-DGWC-10**	EPA 9315	646793		
92710974020	**MCD-DGWC-12**	EPA 9315	646854		
92710974021	**MCD-DGWC-17**	EPA 9315	647934		
92710974022	**MCD-DGWC-47**	EPA 9315	647934		
92710974023	**MCD-DGWC-48**	EPA 9315	647934		
92710974024	**MCD-DGWC-15**	EPA 9315	647934		
92710974025	**MCD-DGWC-14**	EPA 9315	647934		
92710974001	**MCD-DGWC-42**	EPA 9320	646549		
92710974002	**MCD-AP234-FD-2**	EPA 9320	646549		
92710974003	**MCD-DGWC-21**	EPA 9320	646776		
92710974004	**MCD-DGWC-22**	EPA 9320	646776		
92710974005	**MCD-DGWC-23**	EPA 9320	646776		
92710974006	**MCD-DGWC-13**	EPA 9320	646776		
92710974007	**MCD-AP234-FD-3**	EPA 9320	646776		
92710974008	**MCD-AP234-FB-2**	EPA 9320	646776		
92710974009	**MCD-DGWC-2**	EPA 9320	646984		
92710974010	**MCD-DGWC-4**	EPA 9320	646984		
92710974011	**MCD-DGWC-5**	EPA 9320	646984		
92710974012	**MCD-DGWC-8**	EPA 9320	646984		
92710974013	**MCD-DGWC-11**	EPA 9320	646984		
92710974014	**MCD-DGWC-19**	EPA 9320	646984		
92710974015	**MCD-DGWC-20**	EPA 9320	646984		
92710974016	**MCD-AP234-EB-2**	EPA 9320	646984		
92710974017	**MCD-AP234-EB-3**	EPA 9320	646984		
92710974018	**MCD-AP234-FB-3**	EPA 9320	646984		
92710974019	**MCD-DGWC-10**	EPA 9320	646984		
92710974020	**MCD-DGWC-12**	EPA 9320	646984		

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Well Net- RAD
Pace Project No.: 92710974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710974021	**MCD-DGWC-17**	EPA 9320	647678		
92710974022	**MCD-DGWC-47**	EPA 9320	647678		
92710974023	**MCD-DGWC-48**	EPA 9320	647678		
92710974024	**MCD-DGWC-15**	EPA 9320	647678		
92710974025	**MCD-DGWC-14**	EPA 9320	647678		
92710974001	**MCD-DGWC-42**	Total Radium Calculation	649312		
92710974002	**MCD-AP234-FD-2**	Total Radium Calculation	649312		
92710974003	**MCD-DGWC-21**	Total Radium Calculation	650184		
92710974004	**MCD-DGWC-22**	Total Radium Calculation	650184		
92710974005	**MCD-DGWC-23**	Total Radium Calculation	650184		
92710974006	**MCD-DGWC-13**	Total Radium Calculation	650184		
92710974007	**MCD-AP234-FD-3**	Total Radium Calculation	650184		
92710974008	**MCD-AP234-FB-2**	Total Radium Calculation	650184		
92710974009	**MCD-DGWC-2**	Total Radium Calculation	650184		
92710974010	**MCD-DGWC-4**	Total Radium Calculation	650184		
92710974011	**MCD-DGWC-5**	Total Radium Calculation	650184		
92710974012	**MCD-DGWC-8**	Total Radium Calculation	650184		
92710974013	**MCD-DGWC-11**	Total Radium Calculation	650184		
92710974014	**MCD-DGWC-19**	Total Radium Calculation	650184		
92710974015	**MCD-DGWC-20**	Total Radium Calculation	650184		
92710974016	**MCD-AP234-EB-2**	Total Radium Calculation	650184		
92710974017	**MCD-AP234-EB-3**	Total Radium Calculation	650184		
92710974018	**MCD-AP234-FB-3**	Total Radium Calculation	650184		
92710974019	**MCD-DGWC-10**	Total Radium Calculation	650184		
92710974020	**MCD-DGWC-12**	Total Radium Calculation	650222		
92710974021	**MCD-DGWC-17**	Total Radium Calculation	651999		
92710974022	**MCD-DGWC-47**	Total Radium Calculation	651999		
92710974023	**MCD-DGWC-48**	Total Radium Calculation	651999		
92710974024	**MCD-DGWC-15**	Total Radium Calculation	651999		
92710974025	**MCD-DGWC-14**	Total Radium Calculation	651999		

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Pace ANALYTICAL SERVICES

Doc_Title: ENV-FRM-HUNT-0083 V03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #

WO# : 92710974

92710974

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 1/31/24

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: 2.0

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

Cooler Temp Corrected (°C): 1.9

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92710974

PM: BV Due Date: 02/21/24

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	1			1	1																	2	BP1N			
2		2	1			1	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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

n A ed Client Information:	Section B Required Project Information:	Section C Invoice Information:
ny: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
s: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
laucoker@southernco.com	Purchase Order #:	Pace Quote:
(470) 620-6176 Fax	Project Name: Plant McD AP-234 Well Network	Pace Project Manager: Bonnie Vang
sted Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

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

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

SAMPLE ID	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	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710974
																N	N	N	N	N	N		
MCD-DGWC-42	WG	G	1/30/24	15:45		7	3		3		1					X	X	X	X	X	X		OUR
MCD-AP234-FD-2	WG	G	1/30/24	–		7	3		3		1					X	X	X	X	X	X		OUR

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / WSP	1/31/24	0840	Chase [signature] Courier Now	1/31	
				[signature] / Pace	1/31/24	0938

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga power

Project #: WO# : 92710974

PM: BV Due Date: 02/21/24

CLIENT: 92-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/12/24 JG

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☑ IR Gun ID: 23C **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 **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): 1.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92710974

PM: BV Due Date: 02/21/24

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)	[illegible]	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2460 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 620-6176 Fax	Project Name: Plant McD AP-234 Well Network	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App III/IV + Mg, Na, K, Fe (N)	Cl, F, SO4 (N)	Radium 9513/9320 (N)	TDS (N)	Alkalinity (N)	Sulfide (N)	Residual Chlorine (Y/N)	92710974
1	MCD-DGWC-21	WG	G	1/31/24	12:12		7	3		3		1					X	X	X	X	X	X		W3
2	MCD-DGWC-22	WG	G	1/31/24	14:02		7	3		3		1					X	X	X	X	X	X		W4
3	MCD-DGWC-23	WG	G	1/31/24	15:47		7	3		3		1					X	X	X	X	X	X		W5
4	MCD-DGWC-13	WG	G	1/31/24	16:05		7	3		3		1					X	X	X	X	X	X		W6
5	MCD-AP234-FD-3	WG	G	1/31/24	--		7	3		3		1					X	X	X	X	X	X		W7
6	MCD-AP234-FB-2	WQ	G	1/31/24	14:15		7	3		3		1					X	X	X	X	X	X		W8
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] WSP	02/01/24	835	Chase Sander Courier now	2-1-24	
				[signature] 09YC	2-1-24	

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project:

WO#: 92710974

PM: BV **Due Date: 02/21/24**

CLIENT: 92-GA Power

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/12/24 SM

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) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.2

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92710974

PM: BV Due Date: 02/21/24

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)	3PIN	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				
2		2				1	1																		2				
3		2				1	1																		2				
4		2				1	1																		2				
5		2				1	1																		2				
6		2				1	1																		2				
7		2				1	1																		2				
8		2				1	1																		2				
9		2				1	1																		2				
10		2				1	1																		2				
11		2				1	1																		2				
12		2				1	1																		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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Well Network	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		9271077
1	MCD-DGWC-2	WG	G	2/1/24	10:40		9	3		5		1					X	X	X	X	X	X		Extra Rads 009
2	MCD-DGWC-4	WG	G	2/1/24	12:15		7	3		3		1					X	X	X	X	X	X		016
3	MCD-DGWC-5	WG	G	2/1/24	13:28		9	3		5		1					X	X	X	X	X	X		Extra Rads 011
4	MCD-DGWC-8	WG	G	2/1/24	14:38		7	3		3		1					X	X	X	X	X	X		012
5	MCD-DGWC-11	WG	G	2/1/24	14:48		7	3		3		1					X	X	X	X	X	X		013
6	MCD-DGWC-19	WG	G	2/1/24	14:38		7	3		3		1					X	X	X	X	X	X		014
7	MCD-DGWC-20	WG	G	2/1/24	13:10		7	3		3		1					X	X	X	X	X	X		015
8	MCD-AP234-EB-2	WQ	G	2/1/24	15:20		7	3		3		1					X	X	X	X	X	X		016
9	MCD-AP234-EB-3	WQ	G	2/1/24	15:00		7	3		3		1					X	X	X	X	X	X		017
10	MCD-AP234-FB-3	WQ	G	2/1/24	12:15		7	3		3		1					X	X	X	X	X	X		018
11	MCD-DGWC-10	WG	G	2/2/24	11:32		7	3		3		1					X	X	X	X	X	X		019
12	MCD-DGWC-12	WG	G	2/2/24	11:51		7	3		3		1					X	X	X	X	X	X		020
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Task Code = MCD-CCR-ASSMT-2024S1	MATT MANN / MAB	2/2/24	1417	Pace	2/2/24	1417

DATE Signed:

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DOC_Title: ENV-FRM-[illegible]-0000 v00_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Residuals

Project #: WO#: 92710974

PM: BV Due Date: 02/21/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/6/24 mw

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

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

Cooler Temp: 5.4 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.3

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92710974**

PM: BV Due Date: 02/21/24

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)	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)	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)
1		2	1			1	1																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
6		2	1			1	1																		2				
7		2	1			1	1																		2				
8		2	1			1	1																		2				
9		2	1			1	1																		2				
10		2	1			1	1																		2				
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

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Well Network	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92710974
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS															N	N	N	N	N	N					
1	MCD-DGWC-17	WG	G	2/6/24	10:01		7	3		3		1					X	X	X	X	X	X					021
2	MCD-DGWC-47	WG	G	2/5/24	10:35		7	3		3		1					X	X	X	X	X	X					022
3	MCD-DGWC-48	WG	G	2/5/24	12:55		7	3		3		1					X	X	X	X	X	X					023
4	MCD-DGWC-15	WG	G	2/5/24	10:53		7	3		3		1					X	X	X	X	X	X					024
5	MCD-DGWC-14	WG	G	2/5/24	9:22		7	3		3		1					X	X	X	X	X	X					025
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature]	02/06/24	1355	[signature]	2/6/24	1.8

DATE Signed:

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

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/7/2024
Worklist:	77504
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149922
MB concentration:	0.178
M/B 2 Sigma CSU:	0.315
MB MDC:	0.689
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77504	LCSD77504
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.818
Target Conc. (pCi/L, g, F):	4.632	4.630
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.521	3.009
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.861	0.788
Numerical Performance Indicator:	-2.45	-3.87
Percent Recovery:	76.00%	64.99%
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.:	LCS77504	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77504	
Sample Result (pCi/L, g, F):	3.521	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.861	
Sample Duplicate Result (pCi/L, g, F):	3.009	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.788	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.860	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.62%	
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:

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	2/12/2024
Worklist:	77509
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151068
MB concentration:	0.837
M/B 2 Sigma CSU:	0.399
MB MDC:	0.683
MB Numerical Performance Indicator:	4.11
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

OK

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77509	LCSD77509
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.816
Target Conc. (pCi/L, g, F):	4.640	4.640
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.199	3.127
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.805	0.773
Numerical Performance Indicator:	-3.38	-3.68
Percent Recovery:	68.94%	67.39%
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.:	LCS77509	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77509	
Sample Result (pCi/L, g, F):	3.199	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.805	
Sample Duplicate Result (pCi/L, g, F):	3.127	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.773	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.126	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.28%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable. OK VAL

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	JJS1
Date:	2/13/2024
Worklist:	77525
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3152356
MB concentration:	0.898
M/B 2 Sigma CSU:	0.401
MB MDC:	0.652
MB Numerical Performance Indicator:	4.38
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77525	LCSD77525
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.792	37.792
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.818
Target Conc. (pCi/L, g, F):	4.618	4.620
Uncertainty (Calculated):	0.226	0.226
Result (pCi/L, g, F):	4.323	4.607
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.027	1.023
Numerical Performance Indicator:	-0.55	-0.03
Percent Recovery:	93.63%	99.71%
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.:	LCS77525	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77525	
Sample Result (pCi/L, g, F):	4.323	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.027	
Sample Duplicate Result (pCi/L, g, F):	4.607	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.023	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.383	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.29%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

2/21/24

2/21/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/15/2024
Worklist:	77574
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3156333
MB concentration:	0.591
M/B 2 Sigma CSU:	0.314
MB MDC:	0.546
MB Numerical Performance Indicator:	3.68
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

OK

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77574	LCSD77574
Count Date:	2/22/2024	2/22/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.767	37.767
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.815
Target Conc. (pCi/L, g, F):	4.625	4.633
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	4.048	3.902
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.942	0.852
Numerical Performance Indicator:	-1.17	-1.63
Percent Recovery:	87.53%	84.21%
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.:	LCS77574	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77574	
Sample Result (pCi/L, g, F):	4.048	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.942	
Sample Duplicate Result (pCi/L, g, F):	3.902	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.852	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.226	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.87%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAM 2/23/24

VAL
2/23/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/7/2024
Worklist:	77481
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149577
MB concentration:	0.066
M/B 2 Sigma CSU:	0.094
MB MDC:	0.204
MB Numerical Performance Indicator:	1.37
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77481	LCSD77481
Count Date:	2/15/2024	2/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.991	4.972
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.221	4.279
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.768	0.767
Numerical Performance Indicator:	-1.88	-1.69
Percent Recovery:	84.58%	86.07%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77481	92710985001
Duplicate Sample I.D.	LCSD77481	92710985001DUP
Sample Result (pCi/L, g, F):	4.221	1.674
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.768	0.406
Sample Duplicate Result (pCi/L, g, F):	4.279	0.978
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.767	0.287
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.106	2.743
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.75%	52.50%
Duplicate Status vs Numerical Indicator:	Pass	Warning
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

CT 2-16-24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/16/2024
Worklist:	77513
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151195
MB concentration:	0.000
MB 2 Sigma CSU:	0.142
MB MDC:	0.386
MB Numerical Performance Indicator:	0.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77513	LCSD77513
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.511	0.510
Target Conc. (pCi/L, g, F):	4.895	4.906
Uncertainty (Calculated):	0.230	0.231
Result (pCi/L, g, F):	5.435	4.831
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.011	0.914
Numerical Performance Indicator:	1.02	-0.16
Percent Recovery:	111.03%	98.48%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77513	92710974019
Duplicate Sample I.D.	LCSD77513	92710974019DUP
Sample Result (pCi/L, g, F):	5.435	0.302
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.011	0.173
Sample Duplicate Result (pCi/L, g, F):	4.831	0.392
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.216
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.868	-0.640
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.98%	26.04%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

2/21/24

VAM 2/21/24

Quality Control Sample Performance Assessment

Pace Analytical
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Test:	Ra-226
Analyst:	SLC
Date:	2/19/2024
Worklist:	77602
Matrix:	W I

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3157784
MB concentration:	0.034
M/B 2 Sigma CSU:	0.090
MB MDC:	0.216
MB Numerical Performance Indicator:	0.75
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77602	LCSD77602
Count Date:	2/27/2024	2/27/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.501
Target Conc. (pCi/L, g, F):	4.970	4.995
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	4.803	4.940
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.863	0.892
Numerical Performance Indicator:	-0.37	-0.12
Percent Recovery:	96.64%	98.91%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77602	92710976017
Duplicate Sample I.D.	LCSD77602	92710976017DUP
Sample Result (pCi/L, g, F):	4.803	0.288
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.863	0.145
Sample Duplicate Result (pCi/L, g, F):	4.940	0.482
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.892	0.185
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.217	-1.612
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.33%	50.35%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

UAM 2/28/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 05, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 02, 2024 and February 06, 2024. 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
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710976004	**MCD-B-63**	Water	02/01/24 13:14	02/02/24 14:17
92710976005	**MCD-B-66**	Water	02/01/24 10:47	02/02/24 14:17
92710976006	**MCD-B-82**	Water	02/01/24 12:17	02/02/24 14:17
92710976007	**MCD-B-122D**	Water	02/01/24 10:48	02/02/24 14:17
92710976008	**MCD-B-108D**	Water	02/01/24 15:22	02/02/24 14:17
92710976009	**MCD-B-107D**	Water	02/01/24 15:57	02/02/24 14:17
92710976010	**MCD-B-83**	Water	02/01/24 15:51	02/02/24 14:17
92710976011	**MCD-AP234-FD-4**	Water	02/01/24 00:00	02/02/24 14:17
92710976012	**MCD-B-101D**	Water	02/02/24 10:46	02/02/24 14:17
92710976013	**MCD-B-102D**	Water	02/02/24 09:26	02/02/24 14:17
92710976014	**MCD-B-106D**	Water	02/02/24 09:43	02/02/24 14:17
92710976015	**MCD-AP234-FB-4**	Water	02/02/24 09:00	02/02/24 14:17
92710976016	**MCD-AP234-FD-5**	Water	02/02/24 00:00	02/02/24 14:17
92710976017	**MCD-B-88**	Water	02/05/24 10:08	02/06/24 13:55
92710976018	**MCD-B-120D**	Water	02/05/24 12:58	02/06/24 13:55
92710976019	**MCD-B-77**	Water	02/05/24 13:59	02/06/24 13:55
92710976020	**MCD-B-104D**	Water	02/05/24 16:06	02/06/24 13:55
92710976021	**MCD-B-111D**	Water	02/05/24 13:55	02/06/24 13:55
92710976022	**MCD-B-125D**	Water	02/05/24 13:40	02/06/24 13:55
92710976023	**MCD-B-56**	Water	02/05/24 16:36	02/06/24 13:55
92710976024	**MCD-AP234-EB-4**	Water	02/05/24 15:15	02/06/24 13:55
92710976025	**MCD-AP234-EB-5**	Water	02/05/24 11:20	02/06/24 13:55
92710976026	**MCD-AP234-FB-5**	Water	02/05/24 14:40	02/06/24 13:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92710976004	**MCD-B-63**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976005	**MCD-B-66**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976006	**MCD-B-82**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976007	**MCD-B-122D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976008	**MCD-B-108D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976009	**MCD-B-107D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976010	**MCD-B-83**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976011	**MCD-AP234-FD-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976012	**MCD-B-101D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976013	**MCD-B-102D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976014	**MCD-B-106D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976015	**MCD-AP234-FB-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976016	**MCD-AP234-FD-5**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976017	**MCD-B-88**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976018	**MCD-B-120D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976019	**MCD-B-77**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976020	**MCD-B-104D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976021	**MCD-B-111D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976022	**MCD-B-125D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976023	**MCD-B-56**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976024	**MCD-AP234-EB-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976025	**MCD-AP234-EB-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976026	**MCD-AP234-FB-5**	EPA 9315	SLC	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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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-63 **Lab ID: 92710976004** Collected: 02/01/24 13:14 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.533 ± 0.260 (0.361) C:85% T:NA**	pCi/L	02/19/24 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.389U ± 0.433 (0.909) C:81% T:79%**	pCi/L	02/20/24 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.922U ± 0.693 (1.27)**	pCi/L	02/21/24 09:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-66 **Lab ID: 92710976005** Collected: 02/01/24 10:47 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0773U ± 0.139 (0.316) C:93% T:NA**	pCi/L	02/19/24 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.217U ± 0.312 (0.671) C:83% T:81%**	pCi/L	02/20/24 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.294U ± 0.451 (0.987)**	pCi/L	02/21/24 09:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-82 **Lab ID: 92710976006** Collected: 02/01/24 12:17 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.117U ± 0.160 (0.342) C:87% T:NA**	pCi/L	02/19/24 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.368U ± 0.333 (0.667) C:78% T:82%**	pCi/L	02/20/24 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.485U ± 0.493 (1.01)**	pCi/L	02/21/24 09:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-122D **Lab ID: 92710976007** Collected: 02/01/24 10:48 Received: 02/02/24 14:17 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	**5.76 ± 1.09 (0.352) C:88% T:NA**	pCi/L	02/19/24 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**8.83 ± 1.79 (0.654) C:85% T:75%**	pCi/L	02/20/24 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**14.6 ± 2.88 (1.01)**	pCi/L	02/21/24 09:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-108D **Lab ID: 92710976008** Collected: 02/01/24 15:22 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.409 ± 0.229 (0.343) C:90% T:NA**	pCi/L	02/19/24 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.705 ± 0.372 (0.658) C:93% T:79%**	pCi/L	02/20/24 11:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.11 ± 0.601 (1.00)**	pCi/L	02/21/24 09:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-107D **Lab ID: 92710976009** Collected: 02/01/24 15:57 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.204U ± 0.192 (0.378) C:88% T:NA**	pCi/L	02/19/24 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462U ± 0.320 (0.612) C:90% T:78%**	pCi/L	02/20/24 14:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.666U ± 0.512 (0.990)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-83 **Lab ID: 92710976010** Collected: 02/01/24 15:51 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.232U ± 0.198 (0.372) C:83% T:NA**	pCi/L	02/19/24 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.234U ± 0.275 (0.578) C:85% T:86%**	pCi/L	02/20/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.466U ± 0.473 (0.950)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-AP234-FD-4 **Lab ID: 92710976011** Collected: 02/01/24 00:00 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.672 ± 0.279 (0.329) C:87% T:NA**	pCi/L	02/19/24 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.500U ± 0.378 (0.737) C:79% T:75%**	pCi/L	02/20/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.657 (1.07)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-101D **Lab ID: 92710976012** Collected: 02/02/24 10:46 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.534 ± 0.265 (0.401) C:90% T:NA**	pCi/L	02/19/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.613U ± 0.366 (0.658) C:82% T:77%**	pCi/L	02/20/24 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.15 ± 0.631 (1.06)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-102D **Lab ID: 92710976013** Collected: 02/02/24 09:26 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.277 ± 0.176 (0.274) C:97% T:NA**	pCi/L	02/19/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0175U ± 0.269 (0.641) C:86% T:74%**	pCi/L	02/20/24 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.277U ± 0.445 (0.915)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-106D **Lab ID: 92710976014** Collected: 02/02/24 09:43 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.168U ± 0.157 (0.296) C:91% T:NA**	pCi/L	02/19/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0347U ± 0.277 (0.640) C:89% T:82%**	pCi/L	02/20/24 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.203U ± 0.434 (0.936)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-AP234-FB-4 **Lab ID: 92710976015** Collected: 02/02/24 09:00 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0494U ± 0.119 (0.359) C:91% T:NA**	pCi/L	02/19/24 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0568U ± 0.263 (0.602) C:88% T:83%**	pCi/L	02/20/24 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0568U ± 0.382 (0.961)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-AP234-FD-5 **Lab ID: 92710976016** Collected: 02/02/24 00:00 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0833U ± 0.155 (0.353) C:77% T:NA**	pCi/L	02/19/24 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0942U ± 0.303 (0.682) C:89% T:79%**	pCi/L	02/20/24 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.178U ± 0.458 (1.04)**	pCi/L	02/21/24 10:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-88 **Lab ID: 92710976017** Collected: 02/05/24 10:08 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.288 ± 0.145 (0.179) C:91% T:NA**	pCi/L	02/27/24 10:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.803U ± 0.518 (0.974) C:64% T:83%**	pCi/L	02/23/24 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09U ± 0.663 (1.15)**	pCi/L	02/29/24 10:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-120D **Lab ID: 92710976018** Collected: 02/05/24 12:58 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.07 ± 0.427 (0.527) C:93% T:NA**	pCi/L	02/27/24 10:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.861 ± 0.460 (0.789) C:69% T:84%**	pCi/L	02/23/24 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.93 ± 0.887 (1.32)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-77 **Lab ID: 92710976019** Collected: 02/05/24 13:59 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.557 ± 0.301 (0.427) C:97% T:NA**	pCi/L	02/27/24 10:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.395U ± 0.410 (0.846) C:65% T:86%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.952U ± 0.711 (1.27)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-104D **Lab ID: 92710976020** Collected: 02/05/24 16:06 Received: 02/06/24 13:55 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	**5.53 ± 1.13 (0.514) C:102% T:NA**	pCi/L	02/27/24 10:11	13982-63-3	1g
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**9.69 ± 1.98 (0.745) C:68% T:80%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**15.2 ± 3.11 (1.26)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-111D **Lab ID: 92710976021** Collected: 02/05/24 13:55 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.536 ± 0.275 (0.377) C:87% T:NA**	pCi/L	02/28/24 07:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.790U ± 0.465 (0.837) C:67% T:78%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.33 ± 0.740 (1.21)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-125D **Lab ID: 92710976022** Collected: 02/05/24 13:40 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.961 ± 0.358 (0.378) C:93% T:NA**	pCi/L	02/28/24 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.47 ± 0.583 (0.884) C:68% T:77%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.43 ± 0.941 (1.26)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-B-56 **Lab ID: 92710976023** Collected: 02/05/24 16:36 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.269U ± 0.246 (0.480) C:87% T:NA**	pCi/L	02/28/24 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.719U ± 0.554 (1.11) C:65% T:88%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.988U ± 0.800 (1.59)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-AP234-EB-4 **Lab ID: 92710976024** Collected: 02/05/24 15:15 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0584U ± 0.152 (0.455) C:85% T:NA**	pCi/L	02/28/24 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.127U ± 0.416 (0.936) C:71% T:85%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.127U ± 0.568 (1.39)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-AP234-EB-5 **Lab ID: 92710976025** Collected: 02/05/24 11:20 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0101U ± 0.176 (0.468) C:78% T:NA**	pCi/L	02/28/24 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.182U ± 0.489 (1.09) C:72% T:85%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.192U ± 0.665 (1.56)**	pCi/L	02/29/24 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Sample: MCD-AP234-FB-5 **Lab ID: 92710976026** Collected: 02/05/24 14:40 Received: 02/06/24 13:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0306U ± 0.140 (0.406) C:91% T:NA**	pCi/L	02/28/24 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.381U ± 0.307 (0.793) C:73% T:90%**	pCi/L	02/23/24 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.447 (1.20)**	pCi/L	02/29/24 10:30	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

QC Batch: 647934
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976017

METHOD BLANK: 3157784 Matrix: Water
Associated Lab Samples: 92710976017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0340 ± 0.0895 (0.216) C:94% T:NA	pCi/L	02/27/24 10:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

QC Batch: 646856
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976004, 92710976005, 92710976006, 92710976007, 92710976008, 92710976009, 92710976010, 92710976011, 92710976012, 92710976013, 92710976014, 92710976015, 92710976016

METHOD BLANK: 3151500
Matrix: Water
Associated Lab Samples: 92710976004, 92710976005, 92710976006, 92710976007, 92710976008, 92710976009, 92710976010, 92710976011, 92710976012, 92710976013, 92710976014, 92710976015, 92710976016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0973 ± 0.147 (0.324) C:100% T:NA	pCi/L	02/19/24 08:57	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

QC Batch: 648795 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976017, 92710976018, 92710976019, 92710976020, 92710976021, 92710976022, 92710976023, 92710976024, 92710976025, 92710976026

METHOD BLANK: 3161393 Matrix: Water
Associated Lab Samples: 92710976017, 92710976018, 92710976019, 92710976020, 92710976021, 92710976022, 92710976023, 92710976024, 92710976025, 92710976026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.220 ± 0.276 (0.582) C:75% T:93%	pCi/L	02/23/24 11:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

QC Batch: 649226
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976018, 92710976019, 92710976020, 92710976021, 92710976022, 92710976023, 92710976024, 92710976025, 92710976026

METHOD BLANK: 3163747
Matrix: Water
Associated Lab Samples: 92710976018, 92710976019, 92710976020, 92710976021, 92710976022, 92710976023, 92710976024, 92710976025, 92710976026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0292 ± 0.237 (0.633) C:94% T:NA	pCi/L	02/27/24 10:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

QC Batch: 646986 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976004, 92710976005, 92710976006, 92710976007, 92710976008, 92710976009, 92710976010, 92710976011, 92710976012, 92710976013, 92710976014, 92710976015, 92710976016

METHOD BLANK: 3152359 Matrix: Water
Associated Lab Samples: 92710976004, 92710976005, 92710976006, 92710976007, 92710976008, 92710976009, 92710976010, 92710976011, 92710976012, 92710976013, 92710976014, 92710976015, 92710976016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.305 ± 0.286 (0.582) C:86% T:87%	pCi/L	02/20/24 11:22	

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QUALIFIERS

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

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 (%)

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	Ra-226 results by EPA 903.0 may be elevated due to the presence of Ra-228 in the sample contributing Ra-224 to the alpha cpm. If Ra-226 results must be less than a certain action limit, the sample should be recounted after 14 days from separation to exclude contributions from Ra-224.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710976004	**MCD-B-63**	EPA 9315	646856		
92710976005	**MCD-B-66**	EPA 9315	646856		
92710976006	**MCD-B-82**	EPA 9315	646856		
92710976007	**MCD-B-122D**	EPA 9315	646856		
92710976008	**MCD-B-108D**	EPA 9315	646856		
92710976009	**MCD-B-107D**	EPA 9315	646856		
92710976010	**MCD-B-83**	EPA 9315	646856		
92710976011	**MCD-AP234-FD-4**	EPA 9315	646856		
92710976012	**MCD-B-101D**	EPA 9315	646856		
92710976013	**MCD-B-102D**	EPA 9315	646856		
92710976014	**MCD-B-106D**	EPA 9315	646856		
92710976015	**MCD-AP234-FB-4**	EPA 9315	646856		
92710976016	**MCD-AP234-FD-5**	EPA 9315	646856		
92710976017	**MCD-B-88**	EPA 9315	647934		
92710976018	**MCD-B-120D**	EPA 9315	649226		
92710976019	**MCD-B-77**	EPA 9315	649226		
92710976020	**MCD-B-104D**	EPA 9315	649226		
92710976021	**MCD-B-111D**	EPA 9315	649226		
92710976022	**MCD-B-125D**	EPA 9315	649226		
92710976023	**MCD-B-56**	EPA 9315	649226		
92710976024	**MCD-AP234-EB-4**	EPA 9315	649226		
92710976025	**MCD-AP234-EB-5**	EPA 9315	649226		
92710976026	**MCD-AP234-FB-5**	EPA 9315	649226		
92710976004	**MCD-B-63**	EPA 9320	646986		
92710976005	**MCD-B-66**	EPA 9320	646986		
92710976006	**MCD-B-82**	EPA 9320	646986		
92710976007	**MCD-B-122D**	EPA 9320	646986		
92710976008	**MCD-B-108D**	EPA 9320	646986		
92710976009	**MCD-B-107D**	EPA 9320	646986		
92710976010	**MCD-B-83**	EPA 9320	646986		
92710976011	**MCD-AP234-FD-4**	EPA 9320	646986		
92710976012	**MCD-B-101D**	EPA 9320	646986		
92710976013	**MCD-B-102D**	EPA 9320	646986		
92710976014	**MCD-B-106D**	EPA 9320	646986		
92710976015	**MCD-AP234-FB-4**	EPA 9320	646986		
92710976016	**MCD-AP234-FD-5**	EPA 9320	646986		
92710976017	**MCD-B-88**	EPA 9320	648795		
92710976018	**MCD-B-120D**	EPA 9320	648795		
92710976019	**MCD-B-77**	EPA 9320	648795		
92710976020	**MCD-B-104D**	EPA 9320	648795		
92710976021	**MCD-B-111D**	EPA 9320	648795		
92710976022	**MCD-B-125D**	EPA 9320	648795		
92710976023	**MCD-B-56**	EPA 9320	648795		
92710976024	**MCD-AP234-EB-4**	EPA 9320	648795		
92710976025	**MCD-AP234-EB-5**	EPA 9320	648795		
92710976026	**MCD-AP234-FB-5**	EPA 9320	648795		

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-234 Assessme- RAD
Pace Project No.: 92710976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710976004	**MCD-B-63**	Total Radium Calculation	650144		
92710976005	**MCD-B-66**	Total Radium Calculation	650144		
92710976006	**MCD-B-82**	Total Radium Calculation	650144		
92710976007	**MCD-B-122D**	Total Radium Calculation	650144		
92710976008	**MCD-B-108D**	Total Radium Calculation	650144		
92710976009	**MCD-B-107D**	Total Radium Calculation	650155		
92710976010	**MCD-B-83**	Total Radium Calculation	650155		
92710976011	**MCD-AP234-FD-4**	Total Radium Calculation	650155		
92710976012	**MCD-B-101D**	Total Radium Calculation	650155		
92710976013	**MCD-B-102D**	Total Radium Calculation	650155		
92710976014	**MCD-B-106D**	Total Radium Calculation	650155		
92710976015	**MCD-AP234-FB-4**	Total Radium Calculation	650155		
92710976016	**MCD-AP234-FD-5**	Total Radium Calculation	650155		
92710976017	**MCD-B-88**	Total Radium Calculation	651999		
92710976018	**MCD-B-120D**	Total Radium Calculation	651982		
92710976019	**MCD-B-77**	Total Radium Calculation	651982		
92710976020	**MCD-B-104D**	Total Radium Calculation	651982		
92710976021	**MCD-B-111D**	Total Radium Calculation	651982		
92710976022	**MCD-B-125D**	Total Radium Calculation	651982		
92710976023	**MCD-B-56**	Total Radium Calculation	651982		
92710976024	**MCD-AP234-EB-4**	Total Radium Calculation	651982		
92710976025	**MCD-AP234-EB-5**	Total Radium Calculation	651982		
92710976026	**MCD-AP234-FB-5**	Total Radium Calculation	651982		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92710976

PM: BV Due Date: 02/21/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:___ ☑ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/12/24 SK

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) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 1.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

Qualtrax ID: 69614

WO# : 92710976

Project #

PM: BV Due Date: 02/21/24

CLIENT: 92-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 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)	BP1N	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				
2		2	1			1 1	1 1																		2				
3		2	1			1 1	1 1																		2				
4		2	1			1 1	1 1																		2				
5		2	1			1 1	1 1																		2				
6		2	1			1 1	1 1																		2				
7		2	1			1 1	1 1																		2				
8		2	1			1 1	1 1																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone: (470) 620-6176	Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710976
1	MCD-B-63	WG	G	2/1/24	13:14		7	3		3		1					X	X	X	X	X	X		004
2	MCD-B-66	WG	G	2/1/24	10:47		7	3		3		1					X	X	X	X	X	X		005
3	MCD-B-82	WG	G	2/1/24	12:17		9	3		5		1					X	X	X	X	X	X		Extra Rads 006
4	MCD-B-122D	WG	G	2/1/24	10:48		7	3		3		1					X	X	X	X	X	X		007
5	MCD-B-108D	WG	G	2/1/24	15:22		7	3		3		1					X	X	X	X	X	X		008
6	MCD-B-107D	WG	G	2/1/24	15:57		7	3		3		1					X	X	X	X	X	X		009
7	MCD-B-83	WG	G	2/1/24	15:51		7	3		3		1					X	X	X	X	X	X		010
8	MCD-AP234-FD-4	WQ	G	2/1/24	--		7	3		3		1					X	X	X	X	X	X		011
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS			
Task Code = MCD-CCR-ASSMT-2024S1	MARY HANN / [signature] / WSP	2/2/24	1417	[signature] / Pace	2/2/24	1417			

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 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project # **WO#: 92710976**

PM: BV **Due Date: 02/21/24**

CLIENT: 92-GA Power

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/2/24 SC

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: 1.1 **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): 1.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

Qualtrax ID: 69614

*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#:92710976

PM: BV Due Date: 02/21/24

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)	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)
1		2	1			1	1																		N				
2		2	1			1	1																		X				
3		2	1			1	1																		X				
4		2	1			1	1																		X				
5		2	1			1	1																		N				
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

Pace 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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	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 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	9270976
																Y/N	N	N	N	N	N	N				
1	MCD-B-101D	WG	G	2/2/24	10:46		7	3		3		1					X	X	X	X	X	X				012
2	MCD-B-102D	WG	G	2/2/24	9:26		9	3		5		1					X	X	X	X	X	X				013 Extra Rads
3	MCD-B-106D	WG	G	2/2/24	9:43		7	3		3		1					X	X	X	X	X	X				014
4	MCD-AP234-FB-4	OW	G	2/2/24	9:00		7	3		3		1					X	X	X	X	X	X				015
5	MCD-AP234-FD-5	OW	G	2/2/24	-		7	3		3		1					X	X	X	X	X	X				016
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS			
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	2/2/24	1417	/ Pace	2/2/24	1417			

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 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Residuals

Project #: WO#: 92710976

PM: BV Due Date: 02/21/24

CLIENT: 92-GA Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/6/24 ow

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☐ IR Gun ID: 214 **Type of Ice:** ☐ Wet ☐ Blue ☐ None

Cooler Temp: 5.4 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 5.3

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92710976

PM: BV Due Date: 02/21/24

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)	BP1N	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4		2	1			1	1																		2				
5		2	1			1	1																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	WSP	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-234 Assessment	Pace Project Manager:	Bonnie Vang
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:	

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92710976
	Analyses Test Y/N																N	N	N	N	N	N					
1	MCD-B-88	WG	G	2/5/24	10:08		7	3		3		1					X	X	X	X	X	X					017
2	MCD-B-120D	WG	G	2/5/24	12:58		7	3		3		1					X	X	X	X	X	X					018
3	MCD-B-77	WG	G	2/5/24	13:59		7	3		5		1					X	X	X	X	X	X					019
4	MCD-B-104D	WG	G	2/5/24	16:06		7	3		3		1					X	X	X	X	X	X					020
5	MCD-B-111D	WG	G	2/5/24	13:55		7	3		3		1					X	X	X	X	X	X					021
6	MCD-B-125D	WG	G	2/5/24	13:40		7	3		3		1					X	X	X	X	X	X					022
7	MCD-B-56	WG	G	2/5/24	16:36		7	3		3		1					X	X	X	X	X	X					023
8	MCD-AP234-EB-4	WQ	G	2/5/24	15:15		7	3		3		1					X	X	X	X	X	X					024
9	MCD-AP234-EB-5	WQ	G	2/5/24	11:20		7	3		3		1					X	X	X	X	X	X					025
10	MCD-AP234-FB-5	WQ	G	2/5/24	14:40		7	3		3		1					X	X	X	X	X	X					026
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	02/06/24	1355		2/6/24 1355	

DATE Signed:

EMP in C

eceived on , /N)

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amples act /N)

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/7/2024
Worklist:	77504
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149922
MB concentration:	0.178
M/B 2 Sigma CSU:	0.315
MB MDC:	0.689
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77504	LCSD77504
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.818
Target Conc. (pCi/L, g, F):	4.632	4.630
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.521	3.009
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.861	0.788
Numerical Performance Indicator:	-2.45	-3.87
Percent Recovery:	76.00%	64.99%
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.:	LCS77504	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77504	
Sample Result (pCi/L, g, F):	3.521	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.861	
Sample Duplicate Result (pCi/L, g, F):	3.009	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.788	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.860	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.62%	
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:

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 2/13/2024
Worklist: 77526
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3152359
MB concentration:	0.305
M/B 2 Sigma CSU:	0.286
MB MDC:	0.582
MB Numerical Performance Indicator:	2.09
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77526	LCSD77526
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.792	37.792
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.815
Target Conc. (pCi/L, g, F):	4.624	4.636
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.006	3.044
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.775	0.715
Numerical Performance Indicator:	-3.93	-4.16
Percent Recovery:	65.02%	65.67%
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.:	LCS77526	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77526	
Sample Result (pCi/L, g, F):	3.006	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.775	
Sample Duplicate Result (pCi/L, g, F):	3.044	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.715	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.071	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.99%	
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:

VAL
2/21/24

2/21/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	2/19/2024
Worklist:	77657
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3161393
MB concentration:	0.220
M/B 2 Sigma CSU:	0.276
MB MDC:	0.582
MB Numerical Performance Indicator:	1.56
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77657	LCSD77657
Count Date:	2/23/2024	2/23/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.754	37.754
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.820
Target Conc. (pCi/L, g, F):	4.621	4.602
Uncertainty (Calculated):	0.226	0.226
Result (pCi/L, g, F):	3.825	4.210
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.907	0.978
Numerical Performance Indicator:	-1.67	-0.77
Percent Recovery:	82.77%	91.48%
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.:	LCS77657	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77657	
Sample Result (pCi/L, g, F):	3.825	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.907	
Sample Duplicate Result (pCi/L, g, F):	4.210	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.978	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.566	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.99%	
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:

2/26/24

ET 2-26-24

Quality Control Sample Performance Assessment

Pace Analytical™
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Test:	Ra-226
Analyst:	SLC
Date:	2/7/2024
Worklist:	77481
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149577
MB concentration:	0.066
M/B 2 Sigma CSU:	0.094
MB MDC:	0.204
MB Numerical Performance Indicator:	1.37
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77481	LCSD77481
Count Date:	2/15/2024	2/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.991	4.972
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.221	4.279
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.768	0.767
Numerical Performance Indicator:	-1.88	-1.69
Percent Recovery:	84.58%	86.07%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77481	92710985001
Duplicate Sample I.D.	LCSD77481	92710985001DUP
Sample Result (pCi/L, g, F):	4.221	1.674
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.768	0.406
Sample Duplicate Result (pCi/L, g, F):	4.279	0.978
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.767	0.287
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.106	2.743
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.75%	52.50%
Duplicate Status vs Numerical Indicator:	Pass	Warning
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

CT 2-16-24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/16/2024
Worklist:	77521
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151500
MB concentration:	0.097
M/B 2 Sigma CSU:	0.147
MB MDC:	0.324
MB Numerical Performance Indicator:	1.29
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77521	LCSD77521
Count Date:	2/19/2024	2/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.509
Target Conc. (pCi/L, g, F):	4.904	4.915
Uncertainty (Calculated):	0.230	0.231
Result (pCi/L, g, F):	4.740	5.387
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.918	1.012
Numerical Performance Indicator:	-0.34	0.89
Percent Recovery:	96.65%	109.59%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77521	92710985002
Duplicate Sample I.D.	LCSD77521	92710985002DUP
Sample Result (pCi/L, g, F):	4.740	0.469
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.918	0.233
Sample Duplicate Result (pCi/L, g, F):	5.387	0.300
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.012	0.190
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.928	1.101
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.55%	44.05%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

CT 2-20-24

LAM 2/20/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/26/2024
Worklist:	77682
Matrix:	W I

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3163747
MB concentration:	-0.029
M/B 2 Sigma CSU:	0.237
MB MDC:	0.633
MB Numerical Performance Indicator:	-0.24
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77682	LCSD77682
Count Date:	2/28/2024	2/28/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.509
Target Conc. (pCi/L, g, F):	4.983	4.920
Uncertainty (Calculated):	0.234	0.231
Result (pCi/L, g, F):	4.488	4.251
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.932	0.894
Numerical Performance Indicator:	-1.01	-1.42
Percent Recovery:	90.08%	86.41%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77682	92711021044
Duplicate Sample I.D.	LCSD77682	92711021044DUP
Sample Result (pCi/L, g, F):	4.488	0.292
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.932	0.233
Sample Duplicate Result (pCi/L, g, F):	4.251	0.088
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.894	0.174
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.360	1.374
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.16%	107.56%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

2/28/24

iAm 2/28/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 16, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD Background- RAD
Pace Project No.: 92710986

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2024. 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
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McD Background- RAD
Pace Project No.: 92710986

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD Background- RAD
Pace Project No.: 92710986

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710986001	**MCD-DGWA-53**	Water	01/30/24 11:19	01/31/24 09:28
92710986002	**MCD-DGWA-71**	Water	01/30/24 12:59	01/31/24 09:28

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SAMPLE ANALYTE COUNT

Project: Plant McD Background- RAD
Pace Project No.: 92710986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92710986001	**MCD-DGWA-53**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710986002	**MCD-DGWA-71**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background- RAD
Pace Project No.: 92710986

Sample: MCD-DGWA-53 **Lab ID: 92710986001** Collected: 01/30/24 11:19 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.342 ± 0.0982 (0.0894) C:110% T:NA**	pCi/L	02/15/24 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.136U ± 0.292 (0.647) C:86% T:84%**	pCi/L	02/14/24 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.478U ± 0.390 (0.736)**	pCi/L	02/16/24 11:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD Background- RAD
Pace Project No.: 92710986

Sample: MCD-DGWA-71 **Lab ID: 92710986002** Collected: 01/30/24 12:59 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.135U ± 0.110 (0.191) C:95% T:NA**	pCi/L	02/15/24 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.170U ± 0.291 (0.636) C:84% T:88%**	pCi/L	02/14/24 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.305U ± 0.401 (0.827)**	pCi/L	02/16/24 11:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD Background- RAD
Pace Project No.: 92710986

QC Batch: 646549
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710986001, 92710986002

METHOD BLANK: 3149922
Matrix: Water
Associated Lab Samples: 92710986001, 92710986002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.178 ± 0.315 (0.689) C:84% T:86%	pCi/L	02/14/24 14:52	

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- RAD
Pace Project No.: 92710986

QC Batch: 646418
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710986001, 92710986002

METHOD BLANK: 3149577 Matrix: Water
Associated Lab Samples: 92710986001, 92710986002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0659 ± 0.0944 (0.204) C:100% T:NA	pCi/L	02/15/24 08:16	

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- RAD
Pace Project No.: 92710986

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD Background- RAD
Pace Project No.: 92710986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710986001	**MCD-DGWA-53**	EPA 9315	646418		
92710986002	**MCD-DGWA-71**	EPA 9315	646418		
92710986001	**MCD-DGWA-53**	EPA 9320	646549		
92710986002	**MCD-DGWA-71**	EPA 9320	646549		
92710986001	**MCD-DGWA-53**	Total Radium Calculation	649312		
92710986002	**MCD-DGWA-71**	Total Radium Calculation	649312		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #:

WO# : 92710986

92710986

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JG 1/31/24

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: 2.3 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 2.2

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:** _____

Qualtrax ID: 69614

**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#: 92710986**

PM: BV Due Date: 02/21/24

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	1			1 ✓	1 ✓																		BP1N 2 ✓			
2		2	1			1 ✓	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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
laucoker@southernco.com	Purchase Order #:	Pace Quote:
(470) 620-6176 Fax	Project Name: Plant McD Background	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

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

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

Requested Analysis Filtered (Y/N)

SAMPLE ID	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)	App III/IV + Mg, Na, K, Fe (N)	Cl, F, SO4 (N)	Radium 9513/9320 (N)	TDS (N)	Alkalinity (N)	Sulfide (N)	Residual Chlorine (Y/N)	92710986
MCD-DGWA-53	WG	G	1/30/24	11:19		7	3		3		1					X	X	X	X	X	X		001
MCD-DGWA-71	WG	G	1/30/24	12:59		7	3		3		1					X	X	X	X	X	X		002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	01/31/24	0840	Chase Sander Courier Mtr	1/31	
				[signature] / Pace	1/31/24	01:28

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/7/2024
Worklist:	77504
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149922
MB concentration:	0.178
M/B 2 Sigma CSU:	0.315
MB MDC:	0.689
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77504	LCSD77504
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.818
Target Conc. (pCi/L, g, F):	4.632	4.630
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.521	3.009
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.861	0.788
Numerical Performance Indicator:	-2.45	-3.87
Percent Recovery:	76.00%	64.99%
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.:	LCS77504	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77504	
Sample Result (pCi/L, g, F):	3.521	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.861	
Sample Duplicate Result (pCi/L, g, F):	3.009	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.788	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.860	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.62%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	SLC
Date:	2/7/2024
Worklist:	77481
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149577
MB concentration:	0.066
M/B 2 Sigma CSU:	0.094
MB MDC:	0.204
MB Numerical Performance Indicator:	1.37
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77481	LCSD77481
Count Date:	2/15/2024	2/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.991	4.972
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.221	4.279
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.768	0.767
Numerical Performance Indicator:	-1.88	-1.69
Percent Recovery:	84.58%	86.07%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77481	92710985001
Duplicate Sample I.D.	LCSD77481	92710985001DUP
Sample Result (pCi/L, g, F):	4.221	1.674
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.768	0.406
Sample Duplicate Result (pCi/L, g, F):	4.279	0.978
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.767	0.287
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.106	2.743
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.75%	52.50%
Duplicate Status vs Numerical Indicator:	Pass	Warning
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

CT 2-16-24

VAM 2/15/24

Pace Analytical Services, LLC
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February 19, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 01, 2024 and February 02, 2024. 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92711279001	**MCD-B-100**	Water	01/31/24 13:55	02/01/24 09:42
92711279002	**MCD-B-62**	Water	02/01/24 10:50	02/02/24 14:17

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92711279001	**MCD-B-100**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92711279002	**MCD-B-62**	EPA 6010D	DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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 McD AP-1234 Assessment
Pace Project No.: 92711279

Sample: MCD-B-100 **Lab ID: 92711279001** Collected: 01/31/24 13:55 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**19.3**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 05:33	7440-23-5	
Calcium	**24.3**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 05:33	7440-70-2	
Magnesium	**25.4**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 05:33	7439-95-4	
Iron	**10.5**	mg/L	0.040	0.025	1	02/02/24 10:25	02/10/24 12:39	7439-89-6	
Potassium	**0.84**	mg/L	0.50	0.15	1	02/02/24 10:25	02/10/24 12:39	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	0.00054	1	02/02/24 09:55	02/02/24 18:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:43	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:43	7440-39-3	
Beryllium	**0.00047J**	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:43	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:43	7440-42-8	BC
Cadmium	**0.00033J**	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:43	7440-47-3	
Cobalt	**0.065**	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.8**	mg/L	5.0	5.0	1		02/06/24 12:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 12:27		
Alkalinity, Total as CaCO3	**28.8**	mg/L	5.0	5.0	1		02/06/24 12:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**582**	mg/L	25.0	25.0	1		02/04/24 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.5**	mg/L	1.0	0.60	1		02/02/24 07:40	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		02/02/24 07:40	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Sample: MCD-B-100 **Lab ID: 92711279001** Collected: 01/31/24 13:55 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**340**	mg/L	7.0	3.5	7		02/02/24 11:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Sample: MCD-B-62 **Lab ID: 92711279002** Collected: 02/01/24 10:50 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.6**	mg/L	0.50	0.15	1	02/03/24 10:10	02/07/24 22:38	7440-09-7	
Calcium	**33.2**	mg/L	1.0	0.12	1	02/03/24 10:10	02/07/24 22:38	7440-70-2	
Magnesium	**4.7**	mg/L	0.050	0.012	1	02/03/24 10:10	02/07/24 22:38	7439-95-4	
Iron	**5.3**	mg/L	0.040	0.025	1	02/03/24 10:10	02/10/24 22:22	7439-89-6	
Sodium	**10.6**	mg/L	1.0	0.58	1	02/03/24 10:10	02/10/24 22:22	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/03/24 09:04	02/06/24 18:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/03/24 09:04	02/06/24 18:26	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00047	1	02/03/24 09:04	02/06/24 18:26	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.00050	0.000094	1	02/03/24 09:04	02/06/24 18:26	7440-41-7	
Boron	**0.083**	mg/L	0.040	0.012	1	02/03/24 09:04	02/06/24 18:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/03/24 09:04	02/06/24 18:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/03/24 09:04	02/06/24 18:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/03/24 09:04	02/06/24 18:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/03/24 09:04	02/06/24 18:26	7439-92-1	
Lithium	**0.0094J**	mg/L	0.030	0.0016	1	02/03/24 09:04	02/06/24 18:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/03/24 09:04	02/06/24 18:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/03/24 09:04	02/06/24 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/03/24 09:04	02/06/24 18:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 14:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**86.5**	mg/L	5.0	5.0	1		02/06/24 18:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 18:19		
Alkalinity, Total as CaCO3	**86.5**	mg/L	5.0	5.0	1		02/06/24 18:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**205**	mg/L	25.0	25.0	1		02/04/24 12:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/24 06:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		02/04/24 01:39	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/04/24 01:39	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Sample: MCD-B-62 **Lab ID: 92711279002** Collected: 02/01/24 10:50 Received: 02/02/24 14:17 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**49.4**	mg/L	1.0	0.50	1		02/04/24 01:39	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829702
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711279001

METHOD BLANK: 4288119 Matrix: Water
Associated Lab Samples: 92711279001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/07/24 02:24	
Iron	mg/L	ND	0.040	0.025	02/07/24 02:24	
Magnesium	mg/L	ND	0.050	0.012	02/07/24 02:24	
Potassium	mg/L	ND	0.50	0.15	02/10/24 11:07	
Sodium	mg/L	ND	1.0	0.58	02/07/24 02:24	

LABORATORY CONTROL SAMPLE: 4288120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	1.1	109	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288121 4288122

Parameter	Units	92710939004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	76.6	1	1	79.0	72.5	242	-409	75-125	9	20	M1
Iron	mg/L	11.3	1	1	13.1	12.7	176	140	75-125	3	20	M1
Magnesium	mg/L	19.7	1	1	21.1	19.2	144	-46	75-125	9	20	M1
Potassium	mg/L	2.3	1	1	3.5	3.4	125	109	75-125	4	20	
Sodium	mg/L	11.6	1	1	12.8	11.7	128	12	75-125	10	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829906
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711279002

METHOD BLANK: 4289495 Matrix: Water
Associated Lab Samples: 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/07/24 21:23	
Iron	mg/L	ND	0.040	0.025	02/10/24 21:13	
Magnesium	mg/L	ND	0.050	0.012	02/07/24 21:23	
Potassium	mg/L	ND	0.50	0.15	02/07/24 21:23	
Sodium	mg/L	ND	1.0	0.58	02/07/24 21:23	

LABORATORY CONTROL SAMPLE: 4289496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	1.1	115	80-120	
Sodium	mg/L	1	1.1	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289497 4289498

Parameter	Units	92710944013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	64.5	1	1	61.3	62.9	-324	-166	75-125	3	20	M1
Iron	mg/L	0.029J	1	1	1.0	0.97	99	94	75-125	4	20	
Magnesium	mg/L	13.7	1	1	13.9	14.3	23	57	75-125	2	20	M1
Potassium	mg/L	5.7	1	1	7.4	6.5	168	85	75-125	12	20	M1
Sodium	mg/L	19.7	1	1	19.6	19.6	-7	-10	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829689
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92711279001

METHOD BLANK: 4288084 Matrix: Water
Associated Lab Samples: 92711279001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/02/24 17:03	
Arsenic	mg/L	ND	0.0050	0.00084	02/02/24 17:03	
Barium	mg/L	ND	0.0050	0.00047	02/02/24 17:03	
Beryllium	mg/L	ND	0.00050	0.000094	02/02/24 17:03	
Boron	mg/L	ND	0.040	0.012	02/02/24 17:03	
Cadmium	mg/L	ND	0.00050	0.00010	02/02/24 17:03	
Chromium	mg/L	ND	0.0050	0.0019	02/02/24 17:03	
Cobalt	mg/L	ND	0.0050	0.00032	02/02/24 17:03	
Lead	mg/L	ND	0.0010	0.00016	02/02/24 17:03	
Lithium	mg/L	ND	0.030	0.0016	02/02/24 17:03	
Molybdenum	mg/L	ND	0.010	0.00062	02/02/24 17:03	
Selenium	mg/L	ND	0.0050	0.00096	02/02/24 17:03	
Thallium	mg/L	ND	0.0010	0.00038	02/02/24 17:03	

LABORATORY CONTROL SAMPLE: 4288085

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	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.11	108	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 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	0.10	0.11	100	106	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	107	111	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.019	0.1	0.1	0.12	0.13	102	106	75-125	3	20	
Beryllium	mg/L	0.0011	0.1	0.1	0.091	0.096	90	95	75-125	5	20	
Boron	mg/L	1.2	1	1	2.1	2.2	83	94	75-125	5	20	
Cadmium	mg/L	0.00041J	0.1	0.1	0.099	0.11	99	105	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Cobalt	mg/L	0.00068J	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.094	90	94	75-125	4	20	
Lithium	mg/L	0.0037J	0.1	0.1	0.095	0.10	91	96	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.11	0.11	107	110	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.097	93	97	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829900
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92711279002

METHOD BLANK: 4289478 Matrix: Water
Associated Lab Samples: 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/06/24 16:40	
Arsenic	mg/L	ND	0.0050	0.00084	02/06/24 16:40	
Barium	mg/L	ND	0.0050	0.00047	02/06/24 16:40	
Beryllium	mg/L	ND	0.00050	0.000094	02/06/24 16:40	
Boron	mg/L	ND	0.040	0.012	02/06/24 16:40	
Cadmium	mg/L	ND	0.00050	0.00010	02/06/24 16:40	
Chromium	mg/L	ND	0.0050	0.0019	02/06/24 16:40	
Cobalt	mg/L	ND	0.0050	0.00032	02/06/24 16:40	
Lead	mg/L	ND	0.0010	0.00016	02/06/24 16:40	
Lithium	mg/L	ND	0.030	0.0016	02/06/24 16:40	
Molybdenum	mg/L	ND	0.010	0.00062	02/06/24 16:40	
Selenium	mg/L	ND	0.0050	0.00096	02/06/24 16:40	
Thallium	mg/L	ND	0.0010	0.00038	02/06/24 16:40	

LABORATORY CONTROL SAMPLE: 4289479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	101	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	0.10	101	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289480 4289481

Parameter	Units	92710944012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00062J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289480 4289481

Parameter	Units	92710944012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.071	0.1	0.1	0.17	0.17	101	96	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	1	20	
Boron	mg/L	1.3	1	1	2.2	2.2	91	85	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.099	105	98	75-125	7	20	
Cobalt	mg/L	0.0026J	0.1	0.1	0.10	0.10	100	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Lithium	mg/L	0.015J	0.1	0.1	0.10	0.11	89	90	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 832509
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711279001, 92711279002

METHOD BLANK: 4302153 Matrix: Water
Associated Lab Samples: 92711279001, 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/24 13:28	

LABORATORY CONTROL SAMPLE: 4302154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4302155 4302156

Parameter	Units	92710944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00015J	0.0025	0.0025	0.0021	0.0023	76	86	75-125	11	20	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 830244
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279001

METHOD BLANK: 4290878 Matrix: Water
Associated Lab Samples: 92711279001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 11:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 11:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 11:42	

LABORATORY CONTROL SAMPLE: 4290879

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: 4290880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290881 4290882

Parameter	Units	92711015015 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	157	50	50	201	198	87	82	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290883 4290884

Parameter	Units	92711015019 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	50.7	50.7	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 830324
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279002

METHOD BLANK: 4291303 Matrix: Water
Associated Lab Samples: 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 16:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 16:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 16:22	

LABORATORY CONTROL SAMPLE: 4291304

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: 4291305

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: 4291306 4291307

Parameter	Units	92710886015 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	41.3	39.7	83	79	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4291308 4291309

Parameter	Units	92710886016 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	51.1	50.9	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829971
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279001

METHOD BLANK: 4289656 Matrix: Water
Associated Lab Samples: 92711279001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/24 12:59	

LABORATORY CONTROL SAMPLE: 4289657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	242	97	90-110	

SAMPLE DUPLICATE: 4289659

Parameter	Units	92710886003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	503	535	6	25	

SAMPLE DUPLICATE: 4289660

Parameter	Units	92710939004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	387	386	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829973
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279002

METHOD BLANK: 4289665 Matrix: Water
Associated Lab Samples: 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/24 12:45	

LABORATORY CONTROL SAMPLE: 4289666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	270	108	90-110	

SAMPLE DUPLICATE: 4289667

Parameter	Units	92711015015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	445	445	0	25	

SAMPLE DUPLICATE: 4289668

Parameter	Units	92710944010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	212	212	0	25	

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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829632
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279001

METHOD BLANK: 4287991 Matrix: Water
Associated Lab Samples: 92711279001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/03/24 06:11	

LABORATORY CONTROL SAMPLE: 4287992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287993 4287994

Parameter	Units	92710944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.47	97	93	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287995 4287996

Parameter	Units	92710886003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.47	93	94	80-120	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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 830837
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279002

METHOD BLANK: 4294225 Matrix: Water
Associated Lab Samples: 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/24 06:05	

LABORATORY CONTROL SAMPLE: 4294226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294227 4294228

Parameter	Units	92711015009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	102	107	80-120	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294229 4294230

Parameter	Units	92710944006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.48	94	96	80-120	1	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829579
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279001

METHOD BLANK: 4287877 Matrix: Water
Associated Lab Samples: 92711279001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/01/24 23:04	
Fluoride	mg/L	ND	0.10	0.050	02/01/24 23:04	
Sulfate	mg/L	ND	1.0	0.50	02/01/24 23:04	

LABORATORY CONTROL SAMPLE: 4287878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287879 4287880

Parameter	Units	92711297001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	52.1	53.2	101	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	96	90-110	2	10	
Sulfate	mg/L	1.4	50	50	52.0	53.1	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287881 4287882

Parameter	Units	92710886004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.0	50	50	64.9	65.1	98	98	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	94	90-110	0	10	
Sulfate	mg/L	224	50	50	266	266	85	85	90-110	0	10	M1

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

QC Batch: 829909
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711279002

METHOD BLANK: 4289509 Matrix: Water
Associated Lab Samples: 92711279002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/24 20:43	
Fluoride	mg/L	ND	0.10	0.050	02/03/24 20:43	
Sulfate	mg/L	ND	1.0	0.50	02/03/24 20:43	

LABORATORY CONTROL SAMPLE: 4289510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289511 4289512

Parameter	Units	92710944008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.9	50	50	79.7	80.5	101	103	90-110	1	10	
Fluoride	mg/L	0.13	2.5	2.5	2.6	2.7	100	102	90-110	2	10	
Sulfate	mg/L	337	50	50	378	379	82	84	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289513 4289514

Parameter	Units	92710958002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	50	50	54.6	55.4	103	105	90-110	1	10	
Fluoride	mg/L	0.29	2.5	2.5	2.7	2.8	97	98	90-110	2	10	
Sulfate	mg/L	15.5	50	50	67.2	68.0	103	105	90-110	1	10	

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

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

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

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assessment
Pace Project No.: 92711279

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92711279001	**MCD-B-100**	EPA 3010A	829702	EPA 6010D	829783
92711279002	**MCD-B-62**	EPA 3010A	829906	EPA 6010D	829935
92711279001	**MCD-B-100**	EPA 3005A	829689	EPA 6020B	829819
92711279002	**MCD-B-62**	EPA 3005A	829900	EPA 6020B	829945
92711279001	**MCD-B-100**	EPA 7470A	832509	EPA 7470A	832596
92711279002	**MCD-B-62**	EPA 7470A	832509	EPA 7470A	832596
92711279001	**MCD-B-100**	SM 2320B-2011	830244		
92711279002	**MCD-B-62**	SM 2320B-2011	830324		
92711279001	**MCD-B-100**	SM 2540C-2015	829971		
92711279002	**MCD-B-62**	SM 2540C-2015	829973		
92711279001	**MCD-B-100**	SM 4500-S2D-2011	829632		
92711279002	**MCD-B-62**	SM 4500-S2D-2011	830837		
92711279001	**MCD-B-100**	EPA 300.0 Rev 2.1 1993	829579		
92711279002	**MCD-B-62**	EPA 300.0 Rev 2.1 1993	829909		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HON-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO# : 92711279

92711279

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/11/24 BL

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: 1.1 **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): 1.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92711279

PM: BV Due Date: 02/15/24

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)	BPHN	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																		X				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

ction A quired Client Information:	Section B Required Project Information:	Section C Invoice Information:
npany: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
lress: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
all: laucoker@southernco.com	Purchase Order #:	Pace Quote:
ne: (470) 620-6176 Fax	Project Name: Plant McD AP-1234 Assessment	Pace Project Manager: Bonnie Vang
uested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV + Mg, Na, K, Fe (N)	Cl, F, SO4 (N)	Radium 9513/9320 (N)	TDS (N)	Alkalinity (N)	Sulfide (N)	Residual Chlorine (Y/N)	92711279
1	MCD-B-100	WG	G	1/31/24	13:55		7	3		3		1					X	X	X	X	X	X		001
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3																								
4																								
5																								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
k Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / WSP	02/01/24	835	[signature] Courier now	2-1-24	
				[signature] 0942	2/1/24	

MP in C | eived on | tody ed ler | ples

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO# : 92711279**

PM: BV **Due Date: 02/15/24**
CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/2/24 SR

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: 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): 1.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

*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#: 92711279**

PM: BV Due Date: 02/15/24

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)	BP1N	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																		2				
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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.

Pace 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:		Section B Required Project Information:		Section C Invoice Information:		1 Of 1
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com	
Address:	2480 Maner Road	Copy To:	WSP	Company Name:		
	Atlanta, GA 30339			Address:		Regulatory Agency
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:		
Phone:	(470) 620-6176 Fax	Project Name:	Plant McD AP-1234 Assessment	Pace Project Manager:	Bonnie Vang	State / Location
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	Pace Profile #:		GA

ITEM #	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/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92711279
1	MCD-B-62	WG	G	2/1/24	10:50		7	3		3		1				N	N	N	N	N	N	N					002
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS			
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	02/02/24	1417	Pace	2/2/24	4.1°C			

DATE Signed:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 21, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Cobb- Assessment
Pace Project No.: 92711281

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between January 31, 2024 and February 01, 2024. 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

Revision 1: Add samples MCD-B-92, MCD-B-93, and MCD-B-98 from WO# 92710944.

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Cobb- Assessment
Pace Project No.: 92711281

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Cobb- Assessment
Pace Project No.: 92711281

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92711281001	**MCD-B-97**	Water	01/31/24 09:52	02/01/24 09:42
92710944001	**MCD-B-92**	Water	01/30/24 10:54	01/31/24 09:28
92710944002	**MCD-B-93**	Water	01/30/24 12:45	01/31/24 09:28
92710944003	**MCD-B-98**	Water	01/30/24 14:43	01/31/24 09:28

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SAMPLE ANALYTE COUNT

Project: Cobb- Assessment
Pace Project No.: 92711281

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92711281001	**MCD-B-97**	EPA 6010D	AJM, DRB	5
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944001	**MCD-B-92**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944002	**MCD-B-93**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92710944003	**MCD-B-98**	EPA 6010D	AJM, DRB	5
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	JAY	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-97 **Lab ID: 92711281001** Collected: 01/31/24 09:52 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.5**	mg/L	2.5	0.76	5	02/02/24 10:25	02/10/24 12:44	7440-09-7	
Iron	ND	mg/L	0.040	0.025	1	02/02/24 10:25	02/07/24 05:43	7439-89-6	
Sodium	**39.5**	mg/L	1.0	0.58	1	02/02/24 10:25	02/07/24 05:43	7440-23-5	
Calcium	**200**	mg/L	1.0	0.12	1	02/02/24 10:25	02/07/24 05:43	7440-70-2	
Magnesium	**34.3**	mg/L	0.050	0.012	1	02/02/24 10:25	02/07/24 05:43	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	0.00054	1	02/02/24 09:55	02/02/24 18:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/02/24 09:55	02/02/24 18:47	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	02/02/24 09:55	02/02/24 18:47	7440-39-3	
Beryllium	**0.0017**	mg/L	0.00050	0.000094	1	02/02/24 09:55	02/02/24 18:47	7440-41-7	
Boron	**3.7**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 18:47	7440-42-8	
Cadmium	**0.00064**	mg/L	0.00050	0.00010	1	02/02/24 09:55	02/02/24 18:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/02/24 09:55	02/02/24 18:47	7440-47-3	
Cobalt	**0.0032J**	mg/L	0.0050	0.00032	1	02/02/24 09:55	02/02/24 18:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/02/24 09:55	02/02/24 18:47	7439-92-1	
Lithium	**0.0046J**	mg/L	0.030	0.0016	1	02/02/24 09:55	02/02/24 18:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/02/24 09:55	02/02/24 18:47	7439-98-7	
Selenium	**0.0032J**	mg/L	0.0050	0.00096	1	02/02/24 09:55	02/02/24 18:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/02/24 09:55	02/02/24 18:47	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	02/08/24 13:00	02/08/24 17:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**57.7**	mg/L	5.0	5.0	1		02/06/24 12:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/06/24 12:35		
Alkalinity, Total as CaCO3	**57.7**	mg/L	5.0	5.0	1		02/06/24 12:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1150**	mg/L	50.0	50.0	1		02/04/24 13:01		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.3**	mg/L	1.0	0.60	1		02/02/24 07:54	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		02/02/24 07:54	16984-48-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-97 **Lab ID: 92711281001** Collected: 01/31/24 09:52 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**667**	mg/L	14.0	7.0	14		02/02/24 11:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-92 **Lab ID: 92710944001** Collected: 01/30/24 10:54 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**25.1**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 01:07	7440-23-5	
Iron	ND	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 02:21	7439-89-6	
Potassium	**6.6**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 02:21	7440-09-7	
Calcium	**126**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 02:21	7440-70-2	
Magnesium	**23.2**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 02:21	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/01/24 10:22	02/01/24 19:12	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 19:12	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 19:12	7440-39-3	
Beryllium	**0.016**	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 19:12	7440-41-7	
Boron	**3.1**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 19:12	7440-42-8	
Cadmium	**0.0013**	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 19:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 19:12	7440-47-3	
Cobalt	**0.060**	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 19:12	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 19:12	7439-98-7	
Selenium	**0.019**	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 19:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 13:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 15:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 15:08		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/05/24 15:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**952**	mg/L	50.0	50.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.0**	mg/L	1.0	0.60	1		02/01/24 23:36	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		02/01/24 23:36	16984-48-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-92 **Lab ID: 92710944001** Collected: 01/30/24 10:54 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**557**	mg/L	12.0	6.0	12		02/01/24 13:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-93 **Lab ID: 92710944002** Collected: 01/30/24 12:45 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 02:26	7439-89-6	
Potassium	**6.6**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 02:26	7440-09-7	
Calcium	**140**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 02:26	7440-70-2	M1
Magnesium	**26.0**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 02:26	7439-95-4	M1
Sodium	**29.2**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 01:12	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/01/24 10:22	02/01/24 19:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 19:16	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 19:16	7440-39-3	
Beryllium	**0.013**	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 19:16	7440-41-7	
Boron	**3.0**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 19:16	7440-42-8	
Cadmium	**0.00080**	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 19:16	7440-43-9	
Chromium	**0.0024J**	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 19:16	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 19:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 19:16	7439-92-1	
Lithium	**0.010J**	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 19:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 19:16	7439-98-7	
Selenium	**0.0063**	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 19:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 19:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 13:47	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.3**	mg/L	5.0	5.0	1		02/05/24 15:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 15:13		
Alkalinity, Total as CaCO3	**10.3**	mg/L	5.0	5.0	1		02/05/24 15:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**992**	mg/L	50.0	50.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.1**	mg/L	1.0	0.60	1		02/01/24 23:50	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		02/01/24 23:50	16984-48-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-93 **Lab ID: 92710944002** Collected: 01/30/24 12:45 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**550**	mg/L	12.0	6.0	12		02/01/24 13:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-98 **Lab ID: 92710944003** Collected: 01/30/24 14:43 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.088**	mg/L	0.040	0.025	1	02/01/24 15:40	02/06/24 02:56	7439-89-6	
Potassium	**6.1**	mg/L	0.50	0.15	1	02/01/24 15:40	02/06/24 02:56	7440-09-7	
Calcium	**32.7**	mg/L	1.0	0.12	1	02/01/24 15:40	02/06/24 02:56	7440-70-2	
Magnesium	**2.1**	mg/L	0.050	0.012	1	02/01/24 15:40	02/06/24 02:56	7439-95-4	
Sodium	**2.8**	mg/L	1.0	0.58	1	02/01/24 15:40	02/07/24 01:27	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/01/24 10:22	02/01/24 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/01/24 10:22	02/01/24 19:20	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	02/01/24 10:22	02/01/24 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/01/24 10:22	02/01/24 19:20	7440-41-7	
Boron	**0.081**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/01/24 10:22	02/01/24 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/01/24 10:22	02/01/24 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/01/24 10:22	02/01/24 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/01/24 10:22	02/01/24 19:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/01/24 10:22	02/01/24 19:20	7439-93-2	
Molybdenum	**0.00095J**	mg/L	0.010	0.00062	1	02/01/24 10:22	02/01/24 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/01/24 10:22	02/01/24 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/01/24 10:22	02/01/24 19:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/24 09:30	02/15/24 13:50	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**98.8**	mg/L	5.0	5.0	1		02/05/24 15:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/05/24 15:19		
Alkalinity, Total as CaCO3	**98.8**	mg/L	5.0	5.0	1		02/05/24 15:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**154**	mg/L	25.0	25.0	1		02/01/24 11:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/03/24 06:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/02/24 00:05	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		02/02/24 00:05	16984-48-8	

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ANALYTICAL RESULTS

Project: Cobb- Assessment
Pace Project No.: 92711281

Sample: MCD-B-98 **Lab ID: 92710944003** Collected: 01/30/24 14:43 Received: 01/31/24 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**9.2**	mg/L	1.0	0.50	1		02/02/24 00:05	14808-79-8	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829488
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944001, 92710944002, 92710944003

METHOD BLANK: 4287316 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/06/24 01:47	
Iron	mg/L	ND	0.040	0.025	02/06/24 01:47	
Magnesium	mg/L	ND	0.050	0.012	02/06/24 01:47	
Potassium	mg/L	ND	0.50	0.15	02/06/24 01:47	
Sodium	mg/L	ND	1.0	0.58	02/06/24 01:47	

LABORATORY CONTROL SAMPLE: 4287317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	
Iron	mg/L	1	0.98	98	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287318 4287319

Parameter	Units	92710944002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	140	1	1	137	137	-336	-322	75-125	0	20	M1
Iron	mg/L	ND	1	1	0.90	0.86	90	86	75-125	5	20	
Magnesium	mg/L	26.0	1	1	26.3	26.2	34	26	75-125	0	20	M1
Potassium	mg/L	6.6	1	1	7.5	7.5	86	90	75-125	0	20	
Sodium	mg/L	29.2	1	1	30.2	30.2	95	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829702
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711281001

METHOD BLANK: 4288119 Matrix: Water
Associated Lab Samples: 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/07/24 02:24	
Iron	mg/L	ND	0.040	0.025	02/07/24 02:24	
Magnesium	mg/L	ND	0.050	0.012	02/07/24 02:24	
Potassium	mg/L	ND	0.50	0.15	02/10/24 11:07	
Sodium	mg/L	ND	1.0	0.58	02/07/24 02:24	

LABORATORY CONTROL SAMPLE: 4288120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	1.1	109	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288121 4288122

Parameter	Units	92710939004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	76.6	1	1	79.0	72.5	242	-409	75-125	9	20	M1
Iron	mg/L	11.3	1	1	13.1	12.7	176	140	75-125	3	20	M1
Magnesium	mg/L	19.7	1	1	21.1	19.2	144	-46	75-125	9	20	M1
Potassium	mg/L	2.3	1	1	3.5	3.4	125	109	75-125	4	20	
Sodium	mg/L	11.6	1	1	12.8	11.7	128	12	75-125	10	20	M1

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829343
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944001, 92710944002, 92710944003

METHOD BLANK: 4286710 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/01/24 18:02	
Arsenic	mg/L	ND	0.0050	0.00084	02/01/24 18:02	
Barium	mg/L	ND	0.0050	0.00047	02/01/24 18:02	
Beryllium	mg/L	ND	0.00050	0.000094	02/01/24 18:02	
Boron	mg/L	ND	0.040	0.012	02/01/24 18:02	
Cadmium	mg/L	ND	0.00050	0.00010	02/01/24 18:02	
Chromium	mg/L	ND	0.0050	0.0019	02/01/24 18:02	
Cobalt	mg/L	ND	0.0050	0.00032	02/01/24 18:02	
Lead	mg/L	ND	0.0010	0.00016	02/01/24 18:02	
Lithium	mg/L	ND	0.030	0.0016	02/01/24 18:02	
Molybdenum	mg/L	ND	0.010	0.00062	02/01/24 18:02	
Selenium	mg/L	ND	0.0050	0.00096	02/01/24 18:02	
Thallium	mg/L	ND	0.0010	0.00038	02/01/24 18:02	

LABORATORY CONTROL SAMPLE: 4286711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 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	0.096	98	96	75-125	2	20	
Arsenic	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: Cobb- Assessment
Pace Project No.: 92711281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.020	0.1	0.1	0.12	0.11	98	93	75-125	5	20	
Beryllium	mg/L	0.0013	0.1	0.1	0.099	0.099	98	97	75-125	0	20	
Boron	mg/L	1.6	1	1	2.5	2.4	93	84	75-125	4	20	
Cadmium	mg/L	0.00046J	0.1	0.1	0.10	0.099	103	99	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	3	20	
Cobalt	mg/L	0.0022J	0.1	0.1	0.11	0.10	105	101	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20	
Lithium	mg/L	0.0047J	0.1	0.1	0.10	0.10	99	99	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.098	102	97	75-125	4	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.10	0.096	99	94	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.091	96	91	75-125	6	20	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829689
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92711281001

METHOD BLANK: 4288084 Matrix: Water
Associated Lab Samples: 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	02/02/24 17:03	
Arsenic	mg/L	ND	0.0050	0.00084	02/02/24 17:03	
Barium	mg/L	ND	0.0050	0.00047	02/02/24 17:03	
Beryllium	mg/L	ND	0.00050	0.000094	02/02/24 17:03	
Boron	mg/L	ND	0.040	0.012	02/02/24 17:03	
Cadmium	mg/L	ND	0.00050	0.00010	02/02/24 17:03	
Chromium	mg/L	ND	0.0050	0.0019	02/02/24 17:03	
Cobalt	mg/L	ND	0.0050	0.00032	02/02/24 17:03	
Lead	mg/L	ND	0.0010	0.00016	02/02/24 17:03	
Lithium	mg/L	ND	0.030	0.0016	02/02/24 17:03	
Molybdenum	mg/L	ND	0.010	0.00062	02/02/24 17:03	
Selenium	mg/L	ND	0.0050	0.00096	02/02/24 17:03	
Thallium	mg/L	ND	0.0010	0.00038	02/02/24 17:03	

LABORATORY CONTROL SAMPLE: 4288085

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	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	105	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.11	108	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 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	0.10	0.11	100	106	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	107	111	75-125	4	20	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.019	0.1	0.1	0.12	0.13	102	106	75-125	3	20	
Beryllium	mg/L	0.0011	0.1	0.1	0.091	0.096	90	95	75-125	5	20	
Boron	mg/L	1.2	1	1	2.1	2.2	83	94	75-125	5	20	
Cadmium	mg/L	0.00041J	0.1	0.1	0.099	0.11	99	105	75-125	6	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Cobalt	mg/L	0.00068J	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.094	90	94	75-125	4	20	
Lithium	mg/L	0.0037J	0.1	0.1	0.095	0.10	91	96	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.11	0.11	107	110	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.097	93	97	75-125	4	20	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 831019
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711281001

METHOD BLANK: 4294943 Matrix: Water
Associated Lab Samples: 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/24 15:57	

LABORATORY CONTROL SAMPLE: 4294944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4294945 4294946

Parameter	Units	92710939001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0027	102	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 832509
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710944001, 92710944002, 92710944003

METHOD BLANK: 4302153 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/24 13:28	

LABORATORY CONTROL SAMPLE: 4302154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4302155 4302156

Parameter	Units	92710944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00015J	0.0025	0.0025	0.0021	0.0023	76	86	75-125	11	20	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 830057
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944001, 92710944002, 92710944003

METHOD BLANK: 4289992 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/05/24 12:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 12:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/05/24 12:18	

LABORATORY CONTROL SAMPLE: 4289993

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: 4289994

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: 4289995 4289996

Parameter	Units	92711030010 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	17.9	50	50	69.6	68.3	104	101	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4289997 4289998

Parameter	Units	92711030011 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	17.5	50	50	70.1	68.5	105	102	80-120	2	25	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 830244
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711281001

METHOD BLANK: 4290878 Matrix: Water
Associated Lab Samples: 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/06/24 11:42	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 11:42	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/06/24 11:42	

LABORATORY CONTROL SAMPLE: 4290879

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: 4290880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290881 4290882

Parameter	Units	92711015015 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	157	50	50	201	198	87	82	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4290883 4290884

Parameter	Units	92711015019 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	50.7	50.7	100	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829339
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944001, 92710944002, 92710944003

METHOD BLANK: 4286695 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/01/24 11:52	

LABORATORY CONTROL SAMPLE: 4286696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4286697

Parameter	Units	92711023001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27.0	27.0	0	25	

SAMPLE DUPLICATE: 4286698

Parameter	Units	92710944003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	136	12	25	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829971
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711281001

METHOD BLANK: 4289656 Matrix: Water
Associated Lab Samples: 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/04/24 12:59	

LABORATORY CONTROL SAMPLE: 4289657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	242	97	90-110	

SAMPLE DUPLICATE: 4289659

Parameter	Units	92710886003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	503	535	6	25	

SAMPLE DUPLICATE: 4289660

Parameter	Units	92710939004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	387	386	0	25	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829632
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944001, 92710944002, 92710944003, 92711281001

METHOD BLANK: 4287991 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003, 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/03/24 06:11	

LABORATORY CONTROL SAMPLE: 4287992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287993 4287994

Parameter	Units	92710944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.47	97	93	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287995 4287996

Parameter	Units	92710886003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.47	93	94	80-120	1	10	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829251
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92710944001, 92710944002, 92710944003

METHOD BLANK: 4286390 Matrix: Water
Associated Lab Samples: 92710944001, 92710944002, 92710944003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/31/24 21:29	
Fluoride	mg/L	ND	0.10	0.050	01/31/24 21:29	
Sulfate	mg/L	ND	1.0	0.50	01/31/24 21:29	

LABORATORY CONTROL SAMPLE: 4286391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.9	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286392 4286393

Parameter	Units	92710726002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	36.6	50	50	78.9	80.2	85	87	90-110	2	10	M1
Fluoride	mg/L	0.90	2.5	2.5	2.7	2.8	73	76	90-110	3	10	M1
Sulfate	mg/L	178	50	50	226	228	96	99	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286394 4286395

Parameter	Units	92710939001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.5	50	50	52.6	53.3	88	90	90-110	1	10	M1
Fluoride	mg/L	0.078J	2.5	2.5	1.8	1.9	71	74	90-110	5	10	M1
Sulfate	mg/L	220	50	50	265	265	90	90	90-110	0	10	

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QUALITY CONTROL DATA

Project: Cobb- Assessment
Pace Project No.: 92711281

QC Batch: 829579
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711281001

METHOD BLANK: 4287877 Matrix: Water
Associated Lab Samples: 92711281001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/01/24 23:04	
Fluoride	mg/L	ND	0.10	0.050	02/01/24 23:04	
Sulfate	mg/L	ND	1.0	0.50	02/01/24 23:04	

LABORATORY CONTROL SAMPLE: 4287878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287879 4287880

Parameter	Units	92711297001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	52.1	53.2	101	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	96	90-110	2	10	
Sulfate	mg/L	1.4	50	50	52.0	53.1	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4287881 4287882

Parameter	Units	92710886004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.0	50	50	64.9	65.1	98	98	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	94	90-110	0	10	
Sulfate	mg/L	224	50	50	266	266	85	85	90-110	0	10	M1

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QUALIFIERS

Project: Cobb- Assessment
Pace Project No.: 92711281

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cobb- Assessment
Pace Project No.: 92711281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710944001	**MCD-B-92**	EPA 3010A	829488	EPA 6010D	829578
92710944002	**MCD-B-93**	EPA 3010A	829488	EPA 6010D	829578
92710944003	**MCD-B-98**	EPA 3010A	829488	EPA 6010D	829578
92711281001	**MCD-B-97**	EPA 3010A	829702	EPA 6010D	829783
92710944001	**MCD-B-92**	EPA 3005A	829343	EPA 6020B	829504
92710944002	**MCD-B-93**	EPA 3005A	829343	EPA 6020B	829504
92710944003	**MCD-B-98**	EPA 3005A	829343	EPA 6020B	829504
92711281001	**MCD-B-97**	EPA 3005A	829689	EPA 6020B	829819
92710944001	**MCD-B-92**	EPA 7470A	832509	EPA 7470A	832596
92710944002	**MCD-B-93**	EPA 7470A	832509	EPA 7470A	832596
92710944003	**MCD-B-98**	EPA 7470A	832509	EPA 7470A	832596
92711281001	**MCD-B-97**	EPA 7470A	831019	EPA 7470A	831089
92710944001	**MCD-B-92**	SM 2320B-2011	830057		
92710944002	**MCD-B-93**	SM 2320B-2011	830057		
92710944003	**MCD-B-98**	SM 2320B-2011	830057		
92711281001	**MCD-B-97**	SM 2320B-2011	830244		
92710944001	**MCD-B-92**	SM 2540C-2015	829339		
92710944002	**MCD-B-93**	SM 2540C-2015	829339		
92710944003	**MCD-B-98**	SM 2540C-2015	829339		
92711281001	**MCD-B-97**	SM 2540C-2015	829971		
92710944001	**MCD-B-92**	SM 4500-S2D-2011	829632		
92710944002	**MCD-B-93**	SM 4500-S2D-2011	829632		
92710944003	**MCD-B-98**	SM 4500-S2D-2011	829632		
92711281001	**MCD-B-97**	SM 4500-S2D-2011	829632		
92710944001	**MCD-B-92**	EPA 300.0 Rev 2.1 1993	829251		
92710944002	**MCD-B-93**	EPA 300.0 Rev 2.1 1993	829251		
92710944003	**MCD-B-98**	EPA 300.0 Rev 2.1 1993	829251		
92711281001	**MCD-B-97**	EPA 300.0 Rev 2.1 1993	829579		

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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# : 92711281**

92711281

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/11/24 BG

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 23C Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 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): 1.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92711281**

PM: BV Due Date: 02/15/24

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)	2 13 01 N	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																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

ction A quired Client Information:	Section B Required Project Information:	Section C Invoice Information:
mpany: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
dress: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
ail: laucoker@southernco.com	Purchase Order #:	Pace Quote:
one: (470) 620-6176 Fax	Project Name: Cobb- Assessment	Pace Project Manager: Bonnie Veng
quested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App III/IV + Mg, Na, K, Fe (N)	Cl, F, SO4 (N)	Radium 9513/9320 (N)	TDS (N)	Alkalinity (N)	Sulfide (N)	Residual Chlorine (Y/N)	92711281
1	MCD-B-97	WG	G	1/31/24	9:52		7	3		3		1					X	X	X	X	X	X			001
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
k Code = MCD-CCR-ASSMT-2024S1	MARK MANN [signature] WSP	02/01/24	835	[signature] Courier now	2-1-24	
				[signature] 0942	2-1-24	

Pace ANALYTICAL SERVICES

DOC#_Title: ENV-FRM-HUNT-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #:

WO#: 92710944

92710944

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: JG 1/31/24

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: 2.0 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.9

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

Qualtrax ID: 69614

*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#:92710944

PM: BV Due Date: 02/14/24

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

n A ed Client Information:	Section B Required Project Information:	Section C Invoice Information:
ny: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
s: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
laucoker@southernco.com	Purchase Order #:	Pace Quote:
(470) 620-6176 Fax	Project Name: Plant McD AP-234 Assessment	Pace Project Manager: Bonnie Vang
sted Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

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

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

SAMPLE ID	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)	App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710944
MCD-B-92	WG	G	1/30/24	10:54		7	3		3		1					X	X	X	X	X	X		HOLD SULFIDE 001
MCD-B-93	WG	G	1/30/24	12:45		7	3		3		1					X	X	X	X	X	X		HOLD SULFIDE 002
MCD-B-98	WG	G	1/30/24	14:43		7	3		3		1					X	X	X	X	X	X		HOLD SULFIDE 003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / WSP	01/31/24	0840	[signature] Courier Vin	1/31	
				[signature] / Pace	1/31/24 0928	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 28, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 01, 2024 and February 02, 2024. 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
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, WSP
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92711290001	**MCD-B-100**	Water	01/31/24 13:55	02/01/24 09:42
92711290002	**MCD-B-62**	Water	02/01/24 10:50	02/02/24 14:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92711290001	**MCD-B-100**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92711290002	**MCD-B-62**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Sample: MCD-B-100 **Lab ID: 92711290001** Collected: 01/31/24 13:55 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0563U ± 0.150 (0.361) C:81% T:NA**	pCi/L	02/20/24 08:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.128U ± 0.312 (0.756) C:87% T:81%**	pCi/L	02/14/24 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0563U ± 0.462 (1.12)**	pCi/L	02/21/24 11:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Sample: MCD-B-62 **Lab ID: 92711290002** Collected: 02/01/24 10:50 Received: 02/02/24 14:17 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.814 ± 0.282 (0.270) C:83% T:NA**	pCi/L	02/21/24 09:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.27 ± 0.513 (0.801) C:79% T:78%**	pCi/L	02/20/24 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.08 ± 0.795 (1.07)**	pCi/L	02/21/24 11:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

QC Batch: 646986
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92711290002

METHOD BLANK: 3152359 Matrix: Water
Associated Lab Samples: 92711290002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.305 ± 0.286 (0.582) C:86% T:87%	pCi/L	02/20/24 11:22	

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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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

QC Batch: 646776
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92711290001

METHOD BLANK: 3151068 Matrix: Water
Associated Lab Samples: 92711290001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.837 ± 0.399 (0.683) C:87% T:87%	pCi/L	02/14/24 11:46	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

QC Batch: 646793
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92711290001, 92711290002

METHOD BLANK: 3151195 Matrix: Water
Associated Lab Samples: 92711290001, 92711290002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.142 (0.386) C:68% T:NA	pCi/L	02/20/24 09:14	

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.

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QUALIFIERS

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD AP-1234 Assessme-RAD
Pace Project No.: 92711290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92711290001	**MCD-B-100**	EPA 9315	646793		
92711290002	**MCD-B-62**	EPA 9315	646793		
92711290001	**MCD-B-100**	EPA 9320	646776		
92711290002	**MCD-B-62**	EPA 9320	646986		
92711290001	**MCD-B-100**	Total Radium Calculation	650184		
92711290002	**MCD-B-62**	Total Radium Calculation	650184		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HON-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92711290

92711290

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/11/24 BG

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: 1.1 **Correction Factor:** Add/Subtract (°C) 0.1

Cooler Temp Corrected (°C): 1.2

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: GW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ 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:** _____

Qualtrax ID: 69614

*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#:92711290

PM: BV Due Date: 02/22/24

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)	BP/U	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																		X				
2																													
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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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

ction A quired Client Information:	Section B Required Project Information:	Section C Invoice Information:
npany: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
dress: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
all: laucoker@southernco.com	Purchase Order #:	Pace Quote:
one: (470) 620-6176 Fax	Project Name: Plant McD AP-1234 Assessment	Pace Project Manager: Bonnie Vang
quested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App III/IV + Mg, Na, K, Fe (N)	Cl, F, SO4 (N)	Radium 9513/9320 (N)	TDS (N)	Alkalinity (N)	Sulfide (N)	Residual Chlorine (Y/N)	92711290
1	MCD-B-100	WG	G	1/31/24	13:55		7	3		3		1					X	X	X	X	X	X		001
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8																								
9																								
0																								
1																								
2																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
k Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / WSP	02/01/24	835	[signature] Courier now	2-1-24	
				[signature] 0942	2/1/24	

MP in C | eived on | tody ed ler | nples

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project # WO#: 92711290

PM: BV Due Date: 02/22/24

CLIENT: 92-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/12/24 SR

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: 1.1 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): 1.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92711290**

PM: BV Due Date: 02/22/24

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)	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)	13PM	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																		2				
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.

Pace 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:		Section B Required Project Information:		Section C Invoice Information:			1 Of 1
Company:	Georgia Power - Coal Combustion Residuals	Report To:	Lauren Coker	Attention:	scsinvoices@southernco.com		
Address:	2480 Maner Road	Copy To:	WSP	Company Name:			
	Atlanta GA 30339			Address:		Regulatory Agency	
Email:	laucoker@southernco.com	Purchase Order #:		Pace Quote:			
Phone: (470) 620-6175	Fax	Project Name:	Plant McD AP-1234 Assessment	Pace Project Manager:	Bonnie Vang	State / Location	
Requested Due Date:	10 Day TAT	Project #:	31406440.McD23	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: Unpreserved - Ice	H2SO4	HNO3 + Ice	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV + Mg, Na, K, Fe	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide				Residual Chlorine (Y/N)	92711290
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															N	N	N	N	N	N					
1	MCD-B-62	WG	G	2/1/24	10:50		7	3		3		1					X	X	X	X	X	X					002
2																										
3																										
4																										
5																										
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12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	02/02/24	1417	Pace	2/2/24	1417

DATE Signed:

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

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 2/13/2024
Worklist: 77526
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3152359
MB concentration:	0.305
M/B 2 Sigma CSU:	0.286
MB MDC:	0.582
MB Numerical Performance Indicator:	2.09
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77526	LCSD77526
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.792	37.792
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.815
Target Conc. (pCi/L, g, F):	4.624	4.636
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.006	3.044
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.775	0.715
Numerical Performance Indicator:	-3.93	-4.16
Percent Recovery:	65.02%	65.67%
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.:	LCS77526	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77526	
Sample Result (pCi/L, g, F):	3.006	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.775	
Sample Duplicate Result (pCi/L, g, F):	3.044	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.715	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.071	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.99%	
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:

VAL
2/21/24

2/21/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/16/2024
Worklist:	77513
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151195
MB concentration:	0.000
M/B 2 Sigma CSU:	0.142
MB MDC:	0.386
MB Numerical Performance Indicator:	0.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77513	LCSD77513
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.511	0.510
Target Conc. (pCi/L, g, F):	4.895	4.906
Uncertainty (Calculated):	0.230	0.231
Result (pCi/L, g, F):	5.435	4.831
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.011	0.914
Numerical Performance Indicator:	1.02	-0.16
Percent Recovery:	111.03%	98.48%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77513	92710974019
Duplicate Sample I.D.	LCSD77513	92710974019DUP
Sample Result (pCi/L, g, F):	5.435	0.302
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.011	0.173
Sample Duplicate Result (pCi/L, g, F):	4.831	0.392
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.216
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.868	-0.640
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.98%	26.04%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

2/21/24

VAM 2/21/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JJS1
Date: 2/12/2024
Worklist: 77509
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151068
MB concentration:	0.837
M/B 2 Sigma CSU:	0.399
MB MDC:	0.683
MB Numerical Performance Indicator:	4.11
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

OK

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77509	LCSD77509
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.816
Target Conc. (pCi/L, g, F):	4.640	4.640
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.199	3.127
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.805	0.773
Numerical Performance Indicator:	-3.38	-3.68
Percent Recovery:	68.94%	67.39%
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.:	LCS77509	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77509	
Sample Result (pCi/L, g, F):	3.199	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.805	
Sample Duplicate Result (pCi/L, g, F):	3.127	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.773	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.126	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.28%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable. OK VAL

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/13/2024
Worklist:	77526
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3152359
MB concentration:	0.305
M/B 2 Sigma CSU:	0.286
MB MDC:	0.582
MB Numerical Performance Indicator:	2.09
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77526	LCSD77526
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.792	37.792
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.815
Target Conc. (pCi/L, g, F):	4.624	4.636
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.006	3.044
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.775	0.715
Numerical Performance Indicator:	-3.93	-4.16
Percent Recovery:	65.02%	65.67%
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.:	LCS77526	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77526	
Sample Result (pCi/L, g, F):	3.006	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.775	
Sample Duplicate Result (pCi/L, g, F):	3.044	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.715	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.071	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.99%	
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:

VAL
2/21/24

2/21/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/16/2024
Worklist:	77513
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151195
MB concentration:	0.000
M/B 2 Sigma CSU:	0.142
MB MDC:	0.386
MB Numerical Performance Indicator:	0.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77513	LCSD77513
Count Date:	2/20/2024	2/20/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.511	0.510
Target Conc. (pCi/L, g, F):	4.895	4.906
Uncertainty (Calculated):	0.230	0.231
Result (pCi/L, g, F):	5.435	4.831
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.011	0.914
Numerical Performance Indicator:	1.02	-0.16
Percent Recovery:	111.03%	98.48%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77513	92710974019
Duplicate Sample I.D.	LCSD77513	92710974019DUP
Sample Result (pCi/L, g, F):	5.435	0.302
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.011	0.173
Sample Duplicate Result (pCi/L, g, F):	4.831	0.392
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.216
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.868	-0.640
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.98%	26.04%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

2/21/24

VAM 2/21/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 21, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between January 31, 2024 and February 01, 2024. 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
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92711292001	**MCD-B-97**	Water	01/31/24 09:52	02/01/24 09:42
92710976001	**MCD-B-92**	Water	01/30/24 10:54	01/31/24 09:28
92710976002	**MCD-B-93**	Water	01/30/24 12:45	01/31/24 09:28
92710976003	**MCD-B-98**	Water	01/30/24 14:43	01/31/24 09:28

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92711292001	**MCD-B-97**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976001	**MCD-B-92**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976002	**MCD-B-93**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92710976003	**MCD-B-98**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Sample: MCD-B-97 **Lab ID: 92711292001** Collected: 01/31/24 09:52 Received: 02/01/24 09:42 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.632 ± 0.267 (0.319) C:89% T:NA**	pCi/L	02/19/24 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.766 ± 0.420 (0.750) C:83% T:81%**	pCi/L	02/14/24 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.40 ± 0.687 (1.07)**	pCi/L	02/21/24 09:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Sample: MCD-B-92 **Lab ID: 92710976001** Collected: 01/30/24 10:54 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.369 ± 0.180 (0.251) C:84% T:NA**	pCi/L	02/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.26 ± 0.538 (0.894) C:87% T:80%**	pCi/L	02/14/24 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.63 ± 0.718 (1.15)**	pCi/L	02/16/24 11:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Sample: MCD-B-93 **Lab ID: 92710976002** Collected: 01/30/24 12:45 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.152U ± 0.137 (0.264) C:89% T:NA**	pCi/L	02/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.885U ± 0.514 (0.952) C:83% T:76%**	pCi/L	02/14/24 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.04U ± 0.651 (1.22)**	pCi/L	02/16/24 11:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Sample: MCD-B-98 **Lab ID: 92710976003** Collected: 01/30/24 14:43 Received: 01/31/24 09:28 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.566 ± 0.195 (0.166) C:103% T:NA**	pCi/L	02/15/24 09:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0314U ± 0.444 (1.01) C:82% T:75%**	pCi/L	02/14/24 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.597U ± 0.639 (1.18)**	pCi/L	02/16/24 11:49	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

QC Batch: 646856
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92711292001

METHOD BLANK: 3151500 Matrix: Water
Associated Lab Samples: 92711292001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0973 ± 0.147 (0.324) C:100% T:NA	pCi/L	02/19/24 08:57	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

QC Batch: 646549
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976001, 92710976002, 92710976003

METHOD BLANK: 3149922 Matrix: Water
Associated Lab Samples: 92710976001, 92710976002, 92710976003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.178 ± 0.315 (0.689) C:84% T:86%	pCi/L	02/14/24 14:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

QC Batch: 646776
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92711292001

METHOD BLANK: 3151068
Matrix: Water
Associated Lab Samples: 92711292001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.837 ± 0.399 (0.683) C:87% T:87%	pCi/L	02/14/24 11:46	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

QC Batch: 646418
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92710976001, 92710976002, 92710976003

METHOD BLANK: 3149577 Matrix: Water
Associated Lab Samples: 92710976001, 92710976002, 92710976003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0659 ± 0.0944 (0.204) C:100% T:NA	pCi/L	02/15/24 08:16	

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QUALIFIERS

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cobb- Assessment- RAD
Pace Project No.: 92711292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710976001	**MCD-B-92**	EPA 9315	646418		
92710976002	**MCD-B-93**	EPA 9315	646418		
92710976003	**MCD-B-98**	EPA 9315	646418		
92711292001	**MCD-B-97**	EPA 9315	646856		
92710976001	**MCD-B-92**	EPA 9320	646549		
92710976002	**MCD-B-93**	EPA 9320	646549		
92710976003	**MCD-B-98**	EPA 9320	646549		
92711292001	**MCD-B-97**	EPA 9320	646776		
92710976001	**MCD-B-92**	Total Radium Calculation	649312		
92710976002	**MCD-B-93**	Total Radium Calculation	649312		
92710976003	**MCD-B-98**	Total Radium Calculation	649312		
92711292001	**MCD-B-97**	Total Radium Calculation	650144		

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without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO# : 92711292

92711292

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/11/24 BL

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 23C **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.2

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: Ga				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ 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 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Project # **WO# : 92711292**

PM: BV **Due Date: 02/22/24**

CLIENT: 92-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 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)	13071N	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																		2				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
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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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

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 Fax:
Requested Due Date: 10 Day TAT

Section B — Required Project Information:
Report To: Lauren Coker
Copy To: WSP
Purchase Order #:
Project Name: Cobb- Assessment
Project #: 31406440.McD23

Section C — Invoice Information:
Attention: scsinvoices@southernco.com
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Veng
Pace Profile #:

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	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 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	
	Matrix Codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS															Y/N	N	N	N	N	N	N		92711292
1	MCD-B-97	WG	G	1/31/24	9:52		7	3		3		1					X	X	X	X	X	X		ws
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Task Code = MCD-CCR-ASSMT-2024S1	MARK MANN / WSP	02/01/24	835	Courier POW	2-1-24	
				0542	2-1-24	

Pace ANALYTICAL SERVICES

DOC_Title: ENV-FRM-HUNT-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #:

WO# : 92710976

92710976

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: JG 1/31/24

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: 2.0 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.9

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

Qualtrax ID: 69614

*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#: 92710976

PM: BV Due Date: 02/21/24

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)	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)	BP1N	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																		2				
2		2	1			1	1																		2				
3		2	1			1	1																		2				
4																													
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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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

n A ed Client Information:	Section B Required Project Information:	Section C Invoice Information:
ny: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
s: 2480 Maner Road	Copy To: WSP	Company Name:
Atlanta, GA 30339		Address:
laucoker@southernco.com	Purchase Order #:	Pace Quote:
(470) 620-6176 Fax	Project Name: Plant McD AP-234 Assessment	Pace Project Manager: Bonnie Vang
sted Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency
State / Location
GA

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

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

Requested Analysis Filtered (Y/N)

SAMPLE ID	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)	App III/IV + Mg, Na, K, Fe (N)	Cl, F, SO4 (N)	Radium 9513/9320 (N)	TDS (N)	Alkalinity (N)	Sulfide (N)	Residual Chlorine (Y/N)	92710972
MCD-B-92	WG	G	1/30/24	10:54		7	3		3		1					X	X	X	X	X	X		HOLD SULFIDE 002
MCD-B-93	WG	G	1/30/24	12:45		7	3		3		1					X	X	X	X	X	X		HOLD SULFIDE 002
MCD-B-98	WG	G	1/30/24	14:43		7	3		3		1					X	X	X	X	X	X		HOLD SULFIDE 003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MAND / [signature] / WSP	01/31/24	0840	[signature] Courier Vin	1/31	
				[signature] / Pace	1/31/24 0928	

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JJS1
Date: 2/12/2024
Worklist: 77509
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151068
MB concentration:	0.837
M/B 2 Sigma CSU:	0.399
MB MDC:	0.683
MB Numerical Performance Indicator:	4.11
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

OK

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77509	LCSD77509
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.816
Target Conc. (pCi/L, g, F):	4.640	4.640
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.199	3.127
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.805	0.773
Numerical Performance Indicator:	-3.38	-3.68
Percent Recovery:	68.94%	67.39%
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.:	LCS77509	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77509	
Sample Result (pCi/L, g, F):	3.199	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.805	
Sample Duplicate Result (pCi/L, g, F):	3.127	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.773	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.126	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.28%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable. OK VAL

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/16/2024
Worklist:	77521
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3151500
MB concentration:	0.097
M/B 2 Sigma CSU:	0.147
MB MDC:	0.324
MB Numerical Performance Indicator:	1.29
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77521	LCSD77521
Count Date:	2/19/2024	2/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.509
Target Conc. (pCi/L, g, F):	4.904	4.915
Uncertainty (Calculated):	0.230	0.231
Result (pCi/L, g, F):	4.740	5.387
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.918	1.012
Numerical Performance Indicator:	-0.34	0.89
Percent Recovery:	96.65%	109.59%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77521	92710985002
Duplicate Sample I.D.	LCSD77521	92710985002DUP
Sample Result (pCi/L, g, F):	4.740	0.469
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.918	0.233
Sample Duplicate Result (pCi/L, g, F):	5.387	0.300
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.012	0.190
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.928	1.101
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.55%	44.05%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

CT 2-20-24

LAM 2/20/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/7/2024
Worklist:	77504
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149922
MB concentration:	0.178
M/B 2 Sigma CSU:	0.315
MB MDC:	0.689
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77504	LCSD77504
Count Date:	2/14/2024	2/14/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.865	37.865
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.818
Target Conc. (pCi/L, g, F):	4.632	4.630
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	3.521	3.009
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.861	0.788
Numerical Performance Indicator:	-2.45	-3.87
Percent Recovery:	76.00%	64.99%
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.:	LCS77504	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77504	
Sample Result (pCi/L, g, F):	3.521	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.861	
Sample Duplicate Result (pCi/L, g, F):	3.009	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.788	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.860	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.62%	
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:

VAL
2/15/24

VAM 2/15/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/7/2024
Worklist:	77481
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3149577
MB concentration:	0.066
M/B 2 Sigma CSU:	0.094
MB MDC:	0.204
MB Numerical Performance Indicator:	1.37
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77481	LCSD77481
Count Date:	2/15/2024	2/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.026	25.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.991	4.972
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.221	4.279
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.768	0.767
Numerical Performance Indicator:	-1.88	-1.69
Percent Recovery:	84.58%	86.07%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
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 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.:	LCS77481	92710985001
Duplicate Sample I.D.	LCSD77481	92710985001DUP
Sample Result (pCi/L, g, F):	4.221	1.674
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.768	0.406
Sample Duplicate Result (pCi/L, g, F):	4.279	0.978
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.767	0.287
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.106	2.743
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.75%	52.50%
Duplicate Status vs Numerical Indicator:	Pass	Warning
Duplicate Status vs RPD:	N/A	N/A
% 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 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:

CT 2-16-24

VAM 2/15/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 07, 2024

Lauren Hartley
Southern Co.
241 Ralph McGill Blvd
NE, Bin 10160
Atlanta, GA 30308

RE: Project: Plant McD Cobb County
Pace Project No.: 92710878

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between January 31, 2024 and February 01, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Yong Cheng, WSP
Daniela Herrera, Golder
Andrea McClure, WSP
Laura Midkiff, Southern Co.
Dawn Prell, WSP USA E&I Inc - Atlanta

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CERTIFICATIONS

Project: Plant McD Cobb County
Pace Project No.: 92710878

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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SAMPLE SUMMARY

Project: Plant McD Cobb County
Pace Project No.: 92710878

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92710878001	**MCD-B-90**	Water	01/30/24 11:45	01/31/24 09:38
92710878002	**MCD-B-91**	Water	01/30/24 13:32	01/31/24 09:38
92710878003	**MCD-B-96**	Water	01/30/24 15:02	01/31/24 09:38
92710878004	**MCD-B-95**	Water	01/31/24 10:08	02/01/24 09:42
92710878005	**MCD-B-99**	Water	01/31/24 14:13	02/01/24 09:42

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant McD Cobb County
Pace Project No.: 92710878

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92710878001	**MCD-B-90**	EPA 6020B	MT1	1
92710878002	**MCD-B-91**	EPA 6020B	MT1	1
92710878003	**MCD-B-96**	EPA 6020B	MT1	1
92710878004	**MCD-B-95**	EPA 6020B	CW1	1
92710878005	**MCD-B-99**	EPA 6020B	CW1	1

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

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ANALYTICAL RESULTS

Project: Plant McD Cobb County
Pace Project No.: 92710878

Sample: MCD-B-90 **Lab ID: 92710878001** Collected: 01/30/24 11:45 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.6**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 18:09	7440-42-8	

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ANALYTICAL RESULTS

Project: Plant McD Cobb County
Pace Project No.: 92710878

Sample: MCD-B-91 **Lab ID: 92710878002** Collected: 01/30/24 13:32 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**2.5**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 18:24	7440-42-8	

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ANALYTICAL RESULTS

Project: Plant McD Cobb County
Pace Project No.: 92710878

Sample: MCD-B-96 **Lab ID: 92710878003** Collected: 01/30/24 15:02 Received: 01/31/24 09:38 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**4.4**	mg/L	0.040	0.012	1	02/01/24 10:22	02/01/24 18:28	7440-42-8	

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ANALYTICAL RESULTS

Project: Plant McD Cobb County
Pace Project No.: 92710878

Sample: MCD-B-95 **Lab ID: 92710878004** Collected: 01/31/24 10:08 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.2**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 17:12	7440-42-8	

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ANALYTICAL RESULTS

Project: Plant McD Cobb County
Pace Project No.: 92710878

Sample: MCD-B-99 **Lab ID: 92710878005** Collected: 01/31/24 14:13 Received: 02/01/24 09:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.2**	mg/L	0.040	0.012	1	02/02/24 09:55	02/02/24 17:28	7440-42-8	

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QUALITY CONTROL DATA

Project: Plant McD Cobb County
Pace Project No.: 92710878

QC Batch: 829343
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710878001, 92710878002, 92710878003

METHOD BLANK: 4286710 Matrix: Water
Associated Lab Samples: 92710878001, 92710878002, 92710878003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.012	02/01/24 18:02	

LABORATORY CONTROL SAMPLE: 4286711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4286712 4286713

Parameter	Units	92710878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.6	1	1	2.5	2.4	93	84	75-125	4	20	

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

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QUALITY CONTROL DATA

Project: Plant McD Cobb County
Pace Project No.: 92710878

QC Batch: 829689
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92710878004, 92710878005

METHOD BLANK: 4288084 Matrix: Water
Associated Lab Samples: 92710878004, 92710878005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.012	02/02/24 17:03	

LABORATORY CONTROL SAMPLE: 4288085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4288086 4288087

Parameter	Units	92710878004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.2	1	1	2.1	2.2	83	94	75-125	5	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: Plant McD Cobb County
Pace Project No.: 92710878

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McD Cobb County
Pace Project No.: 92710878

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92710878001	**MCD-B-90**	EPA 3005A	829343	EPA 6020B	829504
92710878002	**MCD-B-91**	EPA 3005A	829343	EPA 6020B	829504
92710878003	**MCD-B-96**	EPA 3005A	829343	EPA 6020B	829504
92710878004	**MCD-B-95**	EPA 3005A	829689	EPA 6020B	829819
92710878005	**MCD-B-99**	EPA 3005A	829689	EPA 6020B	829819

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power - Coal Combustion Res.

Project #:

WO# : 92710878

92710878

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JC 1/31/24

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: 2.0 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling proces 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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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**

*****Check all unpreserved Nitrates for chlorine**

Project # **WO#: 92710878**

PM: BV Due Date: 02/07/24

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						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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A	Section B	Section C
Client Information:	Required Project Information:	Invoice Information:
Company: Georgia Power - Coal Combustion Residuals	Report To: Lauren Coker	Attention: scsinvoices@southernco.com
Address: 2480 Maner Road	Copy To: Golder	Company Name:
Atlanta, GA 30339		Address:
Email: laucoker@southernco.com	Purchase Order #:	Pace Quote:
Phone: (470) 820-6178 Fax	Project Name: Plant McD Cobb County	Pace Project Manager: Bonnie Vang
Requested Due Date: 10 Day TAT	Project #: 31406440.McD23	Pace Profile #:

Regulatory Agency: —

State / Location: GA

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

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	Residual Chlorine (Y/N)	
															Y/N			92710878
MCD-B-90	WG	G	1/30/24	11:45		1	0		1						N	Boron		001
MCD-B-91	WG	G	1/30/24	13:32		1	0		1						N	Cl, F, SO4		002
MCD-B-96	WG	G	1/30/24	15:02		1	0		1						N	Radium 9613/9320		003
															N	TDS		
															N	Alkalinity		
															N	Sulfide		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / GP	01/31/24	0840	[signature] Courier Hw	1/31	
				[signature] / Pace	1/31/24 0938	

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO#: 92710878**

PM: BV **Due Date: 02/07/24**

CLIENT: 92-GA Power

Courier: ☑ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/11/24 BV

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☑ IR Gun ID: 23C **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 **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): 1.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92710878

PM: BV Due Date: 02/07/24

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)
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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.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

1 Of 1

Section A
Required Client Information:

Company:	Georgia Power - Coal Combustion Residuals
Address:	2480 Maner Road
	Atlanta, GA 30339
Email:	laucoker@southernco.com
Phone:	(470) 620-6178
Fax	
Requested Due Date:	10 Day TAT

Section B
Required Project Information:

Report To:	Lauren Coker
Copy To:	Golder
Purchase Order #:	
Project Name:	Plant McD Cobb County
Project #:	31406440.McD23

Section C
Invoice Information:

Attention:	scsinvoices@southernco.com
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	

Regulatory Agency

State / Location: GA

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

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	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	Boron	Cl, F, SO4	Radium 9513/9320	TDS	Alkalinity	Sulfide	Residual Chlorine (Y/N)	92710878
																	N	N	N	N	N	N		
1	MCD-B-95	WG	G	1/31/24	10:08		1	0		1							X							004
2	MCD-B-99	WG	G	1/31/24	14:13		1	0		1							X							005
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	SAMPLE CONDITIONS
k Code = MCD-CCR-ASSMT-2024S1	MARK MANN / [signature] / WSP	02/01/24	835	[signature] Courier NOW	2-1-24	
				[signature] 0942	2/1/24	

DATE Signed:

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

February 14, 2024

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

RE: Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2024. 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
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Daniela Herrera, WSP USA E&I Inc - Atlanta
Ben Hodges, Georgia Power-CCR
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Southern Company
Dawn Prell, WSP USA E&I Inc - Atlanta
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92711943001	**MCD-UT01_US**	Water	02/06/24 14:10	02/06/24 15:40
92711943002	**MCD-UT02**	Water	02/06/24 14:00	02/06/24 15:40
92711943003	**MCD-UT03**	Water	02/06/24 13:50	02/06/24 15:40
92711943004	**MCD-UT01_DS**	Water	02/06/24 13:40	02/06/24 15:40
92711943005	**MCD-CR-0.1**	Water	02/06/24 12:45	02/06/24 15:40
92711943006	**MCD-CR+0.2**	Water	02/06/24 12:20	02/06/24 15:40
92711943007	**MCD-CR+0.4**	Water	02/06/24 12:10	02/06/24 15:40
92711943008	**MCD-DW_DS**	Water	02/06/24 12:25	02/06/24 15:40
92711943009	**MCD-DW_US**	Water	02/06/24 12:30	02/06/24 15:40
92711943010	**MCD-CR-0.2**	Water	02/06/24 12:40	02/06/24 15:40
92711943011	**MCD-CR-0.5**	Water	02/06/24 12:50	02/06/24 15:40

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92711943001	**MCD-UT01_US**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943002	**MCD-UT02**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943003	**MCD-UT03**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943004	**MCD-UT01_DS**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943005	**MCD-CR-0.1**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943006	**MCD-CR+0.2**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943007	**MCD-CR+0.4**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943008	**MCD-DW_DS**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943009	**MCD-DW_US**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943010	**MCD-CR-0.2**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92711943011	**MCD-CR-0.5**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	JAY	1	PASI-A
		EPA 9056A	CDC	3	PASI-A

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

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-UT01_US **Lab ID: 92711943001** Collected: 02/06/24 14:10 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.042**	mg/L	0.040	1	02/07/24 18:03	02/13/24 20:19	7440-42-8	
Potassium	**3.1**	mg/L	0.50	1	02/07/24 18:03	02/13/24 20:19	7440-09-7	
Sodium	**12.7**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:19	7440-23-5	M1
Calcium	**15.9**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:19	7440-70-2	M1
Magnesium	**3.0**	mg/L	0.050	1	02/07/24 18:03	02/13/24 20:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:07	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**49.4**	mg/L	5.0	1		02/07/24 17:50		
Alkalinity, Total as CaCO3	**49.4**	mg/L	5.0	1		02/07/24 17:50		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**123**	mg/L	25.0	1		02/08/24 13:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.8**	mg/L	1.0	1		02/09/24 03:17	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		02/09/24 03:17	16984-48-8	
Sulfate	**14.0**	mg/L	1.0	1		02/09/24 03:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-UT02 **Lab ID: 92711943002** Collected: 02/06/24 14:00 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.054**	mg/L	0.040	1	02/07/24 18:03	02/13/24 20:39	7440-42-8	
Potassium	**3.1**	mg/L	0.50	1	02/07/24 18:03	02/13/24 20:39	7440-09-7	
Sodium	**12.6**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:39	7440-23-5	
Calcium	**16.0**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:39	7440-70-2	
Magnesium	**3.1**	mg/L	0.050	1	02/07/24 18:03	02/13/24 20:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:11	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**50.9**	mg/L	5.0	1		02/07/24 17:57		
Alkalinity, Total as CaCO3	**50.9**	mg/L	5.0	1		02/07/24 17:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**125**	mg/L	25.0	1		02/08/24 13:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.7**	mg/L	1.0	1		02/09/24 04:02	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		02/09/24 04:02	16984-48-8	
Sulfate	**14.8**	mg/L	1.0	1		02/09/24 04:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-UT03 **Lab ID: 92711943003** Collected: 02/06/24 13:50 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.061**	mg/L	0.040	1	02/07/24 18:03	02/13/24 20:44	7440-42-8	
Potassium	**3.3**	mg/L	0.50	1	02/07/24 18:03	02/13/24 20:44	7440-09-7	
Sodium	**13.4**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:44	7440-23-5	
Calcium	**17.3**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:44	7440-70-2	
Magnesium	**3.3**	mg/L	0.050	1	02/07/24 18:03	02/13/24 20:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:15	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**51.3**	mg/L	5.0	1		02/07/24 18:14		
Alkalinity, Total as CaCO3	**51.3**	mg/L	5.0	1		02/07/24 18:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**121**	mg/L	25.0	1		02/08/24 13:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.5**	mg/L	1.0	1		02/09/24 04:17	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		02/09/24 04:17	16984-48-8	
Sulfate	**14.7**	mg/L	1.0	1		02/09/24 04:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-UT01_DS **Lab ID: 92711943004** Collected: 02/06/24 13:40 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.095**	mg/L	0.040	1	02/07/24 18:03	02/13/24 20:48	7440-42-8	
Potassium	**3.3**	mg/L	0.50	1	02/07/24 18:03	02/13/24 20:48	7440-09-7	
Sodium	**13.4**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:48	7440-23-5	
Calcium	**17.7**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:48	7440-70-2	
Magnesium	**3.6**	mg/L	0.050	1	02/07/24 18:03	02/13/24 20:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:19	7440-38-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**52.5**	mg/L	5.0	1		02/07/24 18:21		
Alkalinity, Total as CaCO3	**52.5**	mg/L	5.0	1		02/07/24 18:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**115**	mg/L	25.0	1		02/08/24 13:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**13.4**	mg/L	1.0	1		02/09/24 04:31	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		02/09/24 04:31	16984-48-8	
Sulfate	**15.7**	mg/L	1.0	1		02/09/24 04:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-CR-0.1 **Lab ID: 92711943005** Collected: 02/06/24 12:45 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/07/24 18:03	02/13/24 20:53	7440-42-8	
Potassium	**3.7**	mg/L	0.50	1	02/07/24 18:03	02/13/24 20:53	7440-09-7	
Sodium	**11.2**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:53	7440-23-5	
Calcium	**8.7**	mg/L	1.0	1	02/07/24 18:03	02/13/24 20:53	7440-70-2	
Magnesium	**2.4**	mg/L	0.050	1	02/07/24 18:03	02/13/24 20:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:23	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 17:23	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.0**	mg/L	5.0	1		02/07/24 18:28		
Alkalinity, Total as CaCO3	**32.0**	mg/L	5.0	1		02/07/24 18:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**86.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.4**	mg/L	1.0	1		02/09/24 04:46	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/09/24 04:46	16984-48-8	
Sulfate	**7.8**	mg/L	1.0	1		02/09/24 04:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-CR+0.2 **Lab ID: 92711943006** Collected: 02/06/24 12:20 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.044**	mg/L	0.040	1	02/07/24 18:03	02/13/24 21:08	7440-42-8	
Potassium	**3.7**	mg/L	0.50	1	02/07/24 18:03	02/13/24 21:08	7440-09-7	
Sodium	**11.4**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:08	7440-23-5	
Calcium	**8.9**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:08	7440-70-2	
Magnesium	**2.5**	mg/L	0.050	1	02/07/24 18:03	02/13/24 21:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:48	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 17:48	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.7**	mg/L	5.0	1		02/07/24 18:35		
Alkalinity, Total as CaCO3	**32.7**	mg/L	5.0	1		02/07/24 18:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**94.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.5**	mg/L	1.0	1		02/09/24 05:01	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/09/24 05:01	16984-48-8	
Sulfate	**8.6**	mg/L	1.0	1		02/09/24 05:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-CR+0.4 **Lab ID: 92711943007** Collected: 02/06/24 12:10 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	**0.061**	mg/L	0.040	1	02/07/24 18:03	02/13/24 21:12	7440-42-8	
Potassium	**3.7**	mg/L	0.50	1	02/07/24 18:03	02/13/24 21:12	7440-09-7	
Sodium	**11.8**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:12	7440-23-5	
Calcium	**9.4**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:12	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	1	02/07/24 18:03	02/13/24 21:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:52	7440-38-2	
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:52	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 17:52	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.9**	mg/L	5.0	1		02/07/24 18:41		
Alkalinity, Total as CaCO3	**32.9**	mg/L	5.0	1		02/07/24 18:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**94.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.8**	mg/L	1.0	1		02/09/24 05:16	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		02/09/24 05:16	16984-48-8	
Sulfate	**10.2**	mg/L	1.0	1		02/09/24 05:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-DW_DS **Lab ID: 92711943008** Collected: 02/06/24 12:25 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/07/24 18:03	02/13/24 21:17	7440-42-8	
Potassium	**3.6**	mg/L	0.50	1	02/07/24 18:03	02/13/24 21:17	7440-09-7	
Sodium	**11.0**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:17	7440-23-5	
Calcium	**8.4**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:17	7440-70-2	
Magnesium	**2.4**	mg/L	0.050	1	02/07/24 18:03	02/13/24 21:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 17:56	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 17:56	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**33.0**	mg/L	5.0	1		02/07/24 18:48		
Alkalinity, Total as CaCO3	**33.0**	mg/L	5.0	1		02/07/24 18:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**85.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.5**	mg/L	1.0	1		02/09/24 05:31	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/09/24 05:31	16984-48-8	
Sulfate	**8.0**	mg/L	1.0	1		02/09/24 05:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-DW_US **Lab ID: 92711943009** Collected: 02/06/24 12:30 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/07/24 18:03	02/13/24 21:22	7440-42-8	
Potassium	**3.5**	mg/L	0.50	1	02/07/24 18:03	02/13/24 21:22	7440-09-7	
Sodium	**10.9**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:22	7440-23-5	
Calcium	**8.6**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:22	7440-70-2	
Magnesium	**2.4**	mg/L	0.050	1	02/07/24 18:03	02/13/24 21:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 18:01	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 18:01	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**31.9**	mg/L	5.0	1		02/07/24 18:54		
Alkalinity, Total as CaCO3	**31.9**	mg/L	5.0	1		02/07/24 18:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**90.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.4**	mg/L	1.0	1		02/09/24 06:15	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/09/24 06:15	16984-48-8	
Sulfate	**7.9**	mg/L	1.0	1		02/09/24 06:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-CR-0.2 **Lab ID: 92711943010** Collected: 02/06/24 12:40 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/07/24 18:03	02/13/24 21:27	7440-42-8	
Potassium	**3.7**	mg/L	0.50	1	02/07/24 18:03	02/13/24 21:27	7440-09-7	
Sodium	**11.3**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:27	7440-23-5	
Calcium	**8.7**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:27	7440-70-2	
Magnesium	**2.5**	mg/L	0.050	1	02/07/24 18:03	02/13/24 21:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 18:05	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 18:05	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.6**	mg/L	5.0	1		02/07/24 19:00		
Alkalinity, Total as CaCO3	**32.6**	mg/L	5.0	1		02/07/24 19:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**84.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.5**	mg/L	1.0	1		02/09/24 06:30	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/09/24 06:30	16984-48-8	
Sulfate	**7.9**	mg/L	1.0	1		02/09/24 06:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Sample: MCD-CR-0.5 **Lab ID: 92711943011** Collected: 02/06/24 12:50 Received: 02/06/24 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	02/07/24 18:03	02/13/24 21:32	7440-42-8	
Potassium	**3.4**	mg/L	0.50	1	02/07/24 18:03	02/13/24 21:32	7440-09-7	
Sodium	**10.9**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:32	7440-23-5	
Calcium	**8.5**	mg/L	1.0	1	02/07/24 18:03	02/13/24 21:32	7440-70-2	
Magnesium	**2.4**	mg/L	0.050	1	02/07/24 18:03	02/13/24 21:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	02/07/24 17:19	02/08/24 18:09	7440-48-4	
Lithium	ND	mg/L	0.030	1	02/07/24 17:19	02/08/24 18:09	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**32.4**	mg/L	5.0	1		02/07/24 19:07		
Alkalinity, Total as CaCO3	**32.4**	mg/L	5.0	1		02/07/24 19:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**87.0**	mg/L	25.0	1		02/08/24 13:54		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**12.6**	mg/L	1.0	1		02/09/24 06:45	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/09/24 06:45	16984-48-8	
Sulfate	**7.9**	mg/L	1.0	1		02/09/24 06:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

QC Batch: 830775
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

METHOD BLANK: 4293889 Matrix: Water
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/13/24 20:10	
Calcium	mg/L	ND	1.0	02/13/24 20:10	
Magnesium	mg/L	ND	0.050	02/13/24 20:10	
Potassium	mg/L	ND	0.50	02/13/24 20:10	
Sodium	mg/L	ND	1.0	02/13/24 20:10	

LABORATORY CONTROL SAMPLE: 4293890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	1	ND	100	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293891 4293892

Parameter	Units	92711943001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.042	1	1	1.1	1.0	102	101	75-125	1	20	
Calcium	mg/L	15.9	1	1	17.3	17.1	140	120	75-125	1	20	M1
Magnesium	mg/L	3.0	1	1	4.1	4.1	111	108	75-125	1	20	
Potassium	mg/L	3.1	1	1	4.1	4.1	104	104	75-125	0	20	
Sodium	mg/L	12.7	1	1	14.1	14.0	136	121	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

QC Batch: 830758
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

METHOD BLANK: 4293777 Matrix: Water
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	02/08/24 16:58	
Cobalt	mg/L	ND	0.0050	02/08/24 16:58	
Lithium	mg/L	ND	0.030	02/08/24 16:58	

LABORATORY CONTROL SAMPLE: 4293778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293779 4293780

Parameter	Units	92711943005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

QC Batch: 830623
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

METHOD BLANK: 4293114 Matrix: Water
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/07/24 16:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/07/24 16:43	

LABORATORY CONTROL SAMPLE: 4293115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

LABORATORY CONTROL SAMPLE: 4293116

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: 4293117 4293118

Parameter	Units	92710886019 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	41.9	42.2	84	84	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4293286 4293287

Parameter	Units	92711669003 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	180	50	50	224	221	88	82	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

QC Batch: 830805
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

METHOD BLANK: 4294133 Matrix: Water
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/08/24 13:52	

LABORATORY CONTROL SAMPLE: 4294134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4294135

Parameter	Units	92711928001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	38000	34700	9	25	1g

SAMPLE DUPLICATE: 4294136

Parameter	Units	92711943003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	121	118	3	25	

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QUALITY CONTROL DATA

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

QC Batch: 831146
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

METHOD BLANK: 4295738 Matrix: Water
Associated Lab Samples: 92711943001, 92711943002, 92711943003, 92711943004, 92711943005, 92711943006, 92711943007, 92711943008, 92711943009, 92711943010, 92711943011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/08/24 21:43	
Fluoride	mg/L	ND	0.10	02/08/24 21:43	
Sulfate	mg/L	ND	1.0	02/08/24 21:43	

LABORATORY CONTROL SAMPLE: 4295739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.9	104	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295740 4295741

Parameter	Units	92711943001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.8	50	50	64.8	64.8	102	102	90-110	0	10	
Fluoride	mg/L	0.16	2.5	2.5	2.6	2.6	96	96	90-110	0	10	
Sulfate	mg/L	14.0	50	50	65.3	65.4	103	103	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4295742 4295743

Parameter	Units	92711706005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	47.4	50	50	98.3	98.9	102	103	90-110	1	10	
Fluoride	mg/L	0.050J	2.5	2.5	2.6	2.6	102	103	90-110	1	10	
Sulfate	mg/L	160	50	50	207	207	94	94	90-110	0	10	

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QUALIFIERS

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

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	Constant weight could not be achieved for this sample after four drying cycles. The final weight change was 0.0022g
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 McDonough-CCR Ash Pond
Pace Project No.: 92711943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92711943001	**MCD-UT01_US**	EPA 3010A	830775	EPA 6010D	830811
92711943002	**MCD-UT02**	EPA 3010A	830775	EPA 6010D	830811
92711943003	**MCD-UT03**	EPA 3010A	830775	EPA 6010D	830811
92711943004	**MCD-UT01_DS**	EPA 3010A	830775	EPA 6010D	830811
92711943005	**MCD-CR-0.1**	EPA 3010A	830775	EPA 6010D	830811
92711943006	**MCD-CR+0.2**	EPA 3010A	830775	EPA 6010D	830811
92711943007	**MCD-CR+0.4**	EPA 3010A	830775	EPA 6010D	830811
92711943008	**MCD-DW_DS**	EPA 3010A	830775	EPA 6010D	830811
92711943009	**MCD-DW_US**	EPA 3010A	830775	EPA 6010D	830811
92711943010	**MCD-CR-0.2**	EPA 3010A	830775	EPA 6010D	830811
92711943011	**MCD-CR-0.5**	EPA 3010A	830775	EPA 6010D	830811
92711943001	**MCD-UT01_US**	EPA 3005A	830758	EPA 6020B	830814
92711943002	**MCD-UT02**	EPA 3005A	830758	EPA 6020B	830814
92711943003	**MCD-UT03**	EPA 3005A	830758	EPA 6020B	830814
92711943004	**MCD-UT01_DS**	EPA 3005A	830758	EPA 6020B	830814
92711943005	**MCD-CR-0.1**	EPA 3005A	830758	EPA 6020B	830814
92711943006	**MCD-CR+0.2**	EPA 3005A	830758	EPA 6020B	830814
92711943007	**MCD-CR+0.4**	EPA 3005A	830758	EPA 6020B	830814
92711943008	**MCD-DW_DS**	EPA 3005A	830758	EPA 6020B	830814
92711943009	**MCD-DW_US**	EPA 3005A	830758	EPA 6020B	830814
92711943010	**MCD-CR-0.2**	EPA 3005A	830758	EPA 6020B	830814
92711943011	**MCD-CR-0.5**	EPA 3005A	830758	EPA 6020B	830814
92711943001	**MCD-UT01_US**	SM 2320B-2011	830623		
92711943002	**MCD-UT02**	SM 2320B-2011	830623		
92711943003	**MCD-UT03**	SM 2320B-2011	830623		
92711943004	**MCD-UT01_DS**	SM 2320B-2011	830623		
92711943005	**MCD-CR-0.1**	SM 2320B-2011	830623		
92711943006	**MCD-CR+0.2**	SM 2320B-2011	830623		
92711943007	**MCD-CR+0.4**	SM 2320B-2011	830623		
92711943008	**MCD-DW_DS**	SM 2320B-2011	830623		
92711943009	**MCD-DW_US**	SM 2320B-2011	830623		
92711943010	**MCD-CR-0.2**	SM 2320B-2011	830623		
92711943011	**MCD-CR-0.5**	SM 2320B-2011	830623		
92711943001	**MCD-UT01_US**	SM 2540C-2015	830805		
92711943002	**MCD-UT02**	SM 2540C-2015	830805		
92711943003	**MCD-UT03**	SM 2540C-2015	830805		
92711943004	**MCD-UT01_DS**	SM 2540C-2015	830805		
92711943005	**MCD-CR-0.1**	SM 2540C-2015	830805		
92711943006	**MCD-CR+0.2**	SM 2540C-2015	830805		
92711943007	**MCD-CR+0.4**	SM 2540C-2015	830805		
92711943008	**MCD-DW_DS**	SM 2540C-2015	830805		
92711943009	**MCD-DW_US**	SM 2540C-2015	830805		
92711943010	**MCD-CR-0.2**	SM 2540C-2015	830805		
92711943011	**MCD-CR-0.5**	SM 2540C-2015	830805		
92711943001	**MCD-UT01_US**	EPA 9056A	831146		
92711943002	**MCD-UT02**	EPA 9056A	831146		
92711943003	**MCD-UT03**	EPA 9056A	831146		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant McDonough-CCR Ash Pond
Pace Project No.: 92711943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92711943004	**MCD-UT01_DS**	EPA 9056A	831146		
92711943005	**MCD-CR-0.1**	EPA 9056A	831146		
92711943006	**MCD-CR+0.2**	EPA 9056A	831146		
92711943007	**MCD-CR+0.4**	EPA 9056A	831146		
92711943008	**MCD-DW_DS**	EPA 9056A	831146		
92711943009	**MCD-DW_US**	EPA 9056A	831146		
92711943010	**MCD-CR-0.2**	EPA 9056A	831146		
92711943011	**MCD-CR-0.5**	EPA 9056A	831146		

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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:	kelley.sharpe@arcadis.com
Phone:	(770)384-6584 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Kelley Sharpe, Warren Johnson
Copy To:	Ben Hodges, Joju Abraham
Copy To:	
Purchase Order #:	GPC11066177
Project Name:	Plant McDonough/CCR-Ash Pond Closure
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	maiya.parks@pacelabs.com,
Pace Profile #:	12896

WO# : 92711943

92711943

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)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total/Bicarb Alkalinity	TDS	Cl, F, SO4	App. III Metals + Mg, Na, K	App. IV Metals - As, Co, Li	App. IV Metals - As	App. IV Metals - Co, Li	Residual Chlorine (Y/N)
1	MCD-UT01_US	WS	G	2/6	1410				3	X		X							X	X	X	X		X		
2	MCD-UT02	WS	G	2/6	1400				3	X		X							X	X	X	X		X		
3	MCD-UT03	WS	G	2/6	1350				3	X		X							X	X	X	X		X		
4	MCD-UT01_DS	WS	G	2/6	1340				3	X		X							X	X	X	X		X		
5	MCD-CR-0.1	WS	G	2/6	1245				3	X		X							X	X	X	X			X	
6	MCD-CR+0.2	WS	G	2/6	1220				3	X		X							X	X	X	X			X	
7	MCD-CR+0.4	WS	G	2/6	1210				3	X		X							X	X	X	X	X			
8	MCD-DW_DS	WS	G	2/6	1225				3	X		X							X	X	X	X			X	
9	MCD-DW_US	WS	G	2/6	1230				3	X		X							X	X	X	X			X	
10	MCD-CR-0.2	WS	G	2/6	1240				3	X		X							X	X	X	X			X	
11	MCD-CR-0.5	WS	G	2/6	1250				3	X		X							X	X	X	X			X	
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
MCD-CSURF-ASSMT-2024S1	Perry Studebaker/Arcadis	2/6/24	1540	[signature]	2/6	~~1450~~ 1540	C2H 2/6/24
6020: As, Co, Li							
6010: B, Ca, Mg, K, Na							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Perry Studebaker

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/6/24

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

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis - Atlanta

Project #: WO#: 92711943

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

PM: MP Due Date: 02/14/24
CLIENT: GA-ArcadAtl

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/6/24 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.8 **Correction Factor:** Add/Subtract (°C) -0.1

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

Cooler Temp Corrected (°C): 5.7

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92711943

PM: MP Due Date: 02/14/24

CLIENT: GA-ArcadAtl

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			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			2			1																							
11			2			1																							
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

Data Validation Summary September 2023

Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4
Submitted by Pace Analytical Services, LLC
September 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 September 6 and September 13, 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. Groundwater samples were also analyzed for alkalinity, sulfide, and total 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 (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315), Radium-228 (USEPA Method 9320), Alkalinity by Titration (Standard Methods 2320B), and Sulfide (Standard Methods SM 4500-S2D). Additional surface water samples were collected and analyzed for USEPA Method 6020B, 6010D, 300.0, TDS, and Alkalinity by Titration through Standard Method 2320B (SM2320B).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory and field duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met with the exception of TDS, as described in the qualification sections below.

Field Precision: Field goals for precision were met with the exception of sulfate, calcium, iron, magnesium, potassium, sodium, and mercury, as described in the qualification sections below.

Accuracy: Laboratory goals for accuracy were met with the exception of calcium, sodium, magnesium, potassium, and sulfate as described in the qualification sections below.

Detection Limits and Blanks: Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require

qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization. Detections were found in certain blank results, as described in the qualification sections below.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Representativeness: All holding time and sample preservation requirements were met in accordance with specific analytical methods except total dissolved solids, alkalinity, chloride, fluoride, and sulfate for surface water samples as described in the qualification section below.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of precision or accuracy, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the data validation process.

J	The analyte was reported above the method detection limit 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 low.
U	The analyte was not detected above the method detection limit.
UJ	The analyte was not detected at a level greater than or equal to the reporting limit. However, the reporting limit is approximate and may be inaccurate or imprecise.

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.

- In SDG 92686679, a project-specific laboratory duplicate for sample MCD-B-98 exceeded the RPD criteria for TDS. The result was qualified as estimated, J.

- Field duplicate RPD values were outside of QC for select analytes in SDG 92686679. Both primary and duplicate samples' sulfate result was qualified as estimated, J due to both results being greater than 5x the RL. The primary and/or duplicate sample results for calcium, iron, magnesium, potassium, and sodium were less than 5x the RL. Additionally, the absolute difference between the results was greater than the maximum of the corresponding RLs and the associated results were qualified as estimated, J.

- Field duplicate RPDs exceeded criteria in SDG 92686947 for select iron and mercury results. Qualification was not required because the primary and/or duplicate sample result was less than 5x the RL and the difference between the results was less than the RL.

- Certain calcium and sodium results from SDG 92686676 and calcium from SDG 92687817 had matrix spike duplicate (MSD) recoveries below the lower QC criteria. All corresponding sample results were greater than 4x the added spike concentration and therefore no qualification was required.

- In SDG 92686679, certain calcium, magnesium, and potassium results 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 therefore no qualification was required.

- Certain sulfate results from SDG 92686947 had MS/MSD recoveries below QC criteria. The associated sample was qualified as estimated, bias low (J-).

- Certain antimony, boron, molybdenum, chromium, and magnesium results from SDGs 92686679 and 92686947 were detected at a similar level in the associated blank sample. As shown in Table 2, if the original sample results were below the RL, the results were qualified U and the results were raised to the RL. When the associated sample being non-detect or having a concentration 10x greater than the blank concentration, no qualification was required.

- TDS was detected in the equipment blank from SDG 92686947, and sample MCD-DGWC-11 was qualified as U, non-detect, and the RL was raised to the sample result.

- All results except metals from SDG 92687817 were qualified as estimated (J/UJ) due to arriving to the laboratory outside of temperature criteria.

WSP reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between September 6 and September 23, 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

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92686676	MCD-DGWA-70A	9/7/2023	92686676001	WG	-		X	X	X	X	X	X	-	-
92686676	MCD-DGWA-71	9/7/2023	92686676002	WG	-	X	X	X	X	X	X	X	-	-
92686676	MCD-DGWA-53	9/7/2023	92686676003	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-93	9/6/2023	92686679001	WG	-	X	X	X	X	X	X	X	X	X
92686679	MCD-B-92	9/6/2023	92686679002	WG	-	X	X	X	X	X	X	X	X	X
92686679	MCD-B-97	9/6/2023	92686679003	WG	-	X	X	X	X	X	X	X	X	X
92686679	MCD-B-98	9/6/2023	92686679004	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-AP234-FB-4	9/6/2023	92686679005	WQ	FB (MCD-B-93)	X	X	X	X	X	X	X	-	-
92686679	MCD-AP234-EB-4	9/6/2023	92686679006	WQ	EB (MCD-B-92)	X	X	X	X	X	X	X	X	X
92686679	MCD-B-63	9/7/2023	92686679007	WG	-	X	X	X	X	X	X	X	X	X
92686679	MCD-B-122D	9/7/2023	92686679008	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-101D	9/8/2023	92686679009	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-56	9/8/2023	92686679010	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-AP234-FD-5	9/7/2023	92686679011	WG	FD (MCD-B-122D)	X	X	X	X	X	X	X	-	-
92686679	MCD-AP234-FB-5	9/7/2023	92686679012	WQ	FB (MCD-B-63)	X	X	X	X	X	X	X	-	-
92686679	MCD-B-102D	9/11/2023	92686679013	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-82	9/11/2023	92686679014	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-66	9/11/2023	92686679015	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-106D	9/11/2023	92686679016	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-AP234-FD-4	9/11/2023	92686679017	WG	FD (MCD-B-82)	X	X	X	X	X	X	X	-	-
92686679	MCD-AP234-EB-5	9/11/2023	92686679018	WQ	EB (MCD-B-102D)	X	X	X	X	X	X	X	-	-
92686679	MCD-B-77	9/12/2023	92686679019	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-83	9/12/2023	92686679020	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-88	9/12/2023	92686679021	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-107D	9/12/2023	92686679022	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-120D	9/12/2023	92686679023	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-104D	9/13/2023	92686679024	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-108D	9/13/2023	92686679025	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-111D	9/13/2023	92686679026	WG	-	X	X	X	X	X	X	X	-	-
92686679	MCD-B-125D	9/13/2023	92686679027	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-14	9/8/2023	92686947001	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-11	9/8/2023	92686947002	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-15	9/8/2023	92686947003	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-19	9/8/2023	92686947004	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-13	9/8/2023	92686947005	WG	-	X	X	X	X	X	X	X	-	-

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92686947	MCD-DGWC-13	9/8/2023	92686947006	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-AP234-FD-2	9/8/2023	92686947007	WG	FD (MCD-DGWC-15)	X	X	X	X	X	X	X	-	-
92686947	MCD-AP234-FB-2	9/8/2023	92686947008	WQ	FB (MCD-DGWC-19)	X	X	X	X	X	X	X	-	-
92686947	MCD-AP234-EB-2	9/8/2023	92686947009	WQ	EB (MCD-DGWC-11)	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-20	9/11/2023	92686947010	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-12	9/11/2023	92686947011	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-21	9/11/2023	92686947012	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-22	9/11/2023	92686947013	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-10	9/11/2023	92686947014	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-23	9/11/2023	92686947015	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-AP234-FD-3	9/11/2023	92686947016	WG	FD (MCD-DGWC-21)	X	X	X	X	X	X	X	-	-
92686947	MCD-AP234-FB-3	9/11/2023	92686947017	WQ	FB (MCD-DGWC-20)	X	X	X	X	X	X	X	-	-
92686947	MCD-AP234-EB-3	9/11/2023	92686947018	WQ	EB (MCD-DGWC-23)	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-47	9/12/2023	92686947019	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-8	9/12/2023	92686947020	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-2	9/13/2023	92686947021	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-5	9/13/2023	92686947022	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-17	9/13/2023	92686947023	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-42	9/13/2023	92686947024	WG	-	X	X	X	X	X	X	X	-	-
92686947	MCD-DGWC-48	9/13/2023	92686947025	WG	-	X	X	X	X	X	X	X	-	-
92686681	MCD-B-100	9/6/2023	92686681001	WG	-	X	X	X	X	X	X	X	-	-
92686681	MCD-B-62	9/7/2023	92686681002	WG	-	X	X	X	X	X	X	X	-	-
92686685	MCD-DGWA-70A	9/6/2023	92686685001	WG	-	-	-	-	-	-	-	-	X	X
92686685	MCD-DGWA-71	9/6/2023	92686685002	WG	-	-	-	-	-	-	-	-	X	X
92686685	MCD-DGWA-53	9/7/2023	92686685003	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-14	9/8/2023	92686980001	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-11	9/8/2023	92686980002	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-15	9/8/2023	92686980003	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-19	9/8/2023	92686980004	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-13	9/8/2023	92686980005	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-AP234-FD-2	9/8/2023	92686980006	WG	FD (MCD-DGWC-15	-	-	-	-	-	-	-	X	X
92686980	MCD-AP234-FB-2	9/8/2023	92686980007	WQ	FB (MCD-DGWC-19)	-	-	-	-	-	-	-	X	X
92686980	MCD-AP234-EB-2	9/8/2023	92686980008	WQ	EB (MCD-DGWC-11)	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-20	9/11/2023	92686980009	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-12	9/11/2023	92686980010	WG	-	-	-	-	-	-	-	-	X	X

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92686980	MCD-DGWC-21	9/11/2023	92686980011	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-22	9/11/2023	92686980012	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-10	9/11/2023	92686980013	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-23	9/11/2023	92686980014	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-AP234-FD-3	9/11/2023	92686980015	WG	FD (MCD-DGWC-21)	-	-	-	-	-	-	-	X	X
92686980	MCD-AP234-FB-3	9/11/2023	92686980016	WQ	FB (MCD-DGWC-20)	-	-	-	-	-	-	-	X	X
92686980	MCD-AP234-EB-3	9/11/2023	92686980017	WQ	EB (MCD-DGWC-23)	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-47	9/12/2023	92686980018	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-8	9/12/2023	92686980019	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-2	9/13/2023	92686980020	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-4	9/13/2023	92686980021	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-5	9/13/2023	92686980022	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-17	9/13/2023	92686980023	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-42	9/13/2023	92686980024	WG	-	-	-	-	-	-	-	-	X	X
92686980	MCD-DGWC-48	9/13/2023	92686980025	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-93	9/6/2023	92686684001	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-92	9/6/2023	92686684002	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-97	9/6/2023	92686684003	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-98	9/6/2023	92686684004	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-AP234-FB-4	9/6/2023	92686684005	WQ	FB (MCD-B-93)	-	-	-	-	-	-	-	X	X
92686684	MCD-AP234-EB-4	9/6/2023	92686684006	WQ	EB (MCD-B-92)	-	-	-	-	-	-	-	X	X
92686684	MCD-B-63	9/7/2023	92686684007	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-122D	9/7/2023	92686684008	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-101D	9/8/2023	92686684009	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-56	9/8/2023	92686684010	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-AP234-FD-5	9/7/2023	92686684011	WG	FD (MCD-B-122D)	-	-	-	-	-	-	-	X	X
92686684	MCD-AP234-FB-5	9/7/2023	92686684012	WQ	FB (MCD-B-63)	-	-	-	-	-	-	-	X	X
92686684	MCD-B-102D	9/11/2023	92686684013	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-82	9/11/2023	92686684014	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-66	9/11/2023	92686684015	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-106D	9/11/2023	92686684016	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-AP234-FD-4	9/11/2023	92686684017	WG	FD (MCD-B-82)	-	-	-	-	-	-	-	X	X
92686684	MCD-AP234-EB-5	9/11/2023	92686684018	WQ	EB (MCD-B-102D)	-	-	-	-	-	-	-	X	X
92686684	MCD-B-77	9/12/2023	92686684019	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-83	9/12/2023	92686684020	WG	-	-	-	-	-	-	-	-	X	X

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92686684	MCD-B-88	9/12/2023	92686684021	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-107D	9/12/2023	92686684022	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-120D	9/12/2023	92686684023	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-104D	9/13/2023	92686684024	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-108D	9/13/2023	92686684025	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-111D	9/13/2023	92686684026	WG	-	-	-	-	-	-	-	-	X	X
92686684	MCD-B-125D	9/13/2023	92686684027	WG	-	-	-	-	-	-	-	-	X	X
92686682	DGWC-39	9/7/2023	92686682001	WG	-	-	-	-	-	-	-	-	X	X
92686682	DGWC-40	9/7/2023	92686682002	WG	-	-	-	-	-	-	-	-	X	X
92687817	MCD-UT01_US	9/13/2023	92687817001	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-UT02	9/13/2023	92687817002	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-UT03	9/13/2023	92687817003	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-UT01_DS	9/13/2023	92687817004	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-CR-0.1	9/12/2023	92687817005	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-CR+0.2	9/12/2023	92687817006	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-CR+0.4	9/12/2023	92687817007	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-DW_DS	9/12/2023	92687817008	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-DW_US	9/12/2023	92687817009	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-CR-0.2	9/12/2023	92687817010	WS	-	-	X	X	X	X	X	-	-	-
92687817	MCD-CR-0.5	9/12/2023	92687817011	WS	-	-	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

SDG	*Sample Name*	*Constituent*	*New Result*	*New RL or MDC*	*Qualifier*	*Reason*
92686679	MCD-B-63	Chromium	0.005	-	U	Field blank detection
92686679	MCD-B-98	TDS	-	-	J	Laboratory duplicate RPD does not meet quality control criteria
92686679	MCD-B-122D	Sulfate	-	-	J	Field duplicate RPD does not meet quality control criteria
92686679	MCD-B-122D	Calcium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-B-122D	Iron	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-B-122D	Magnesium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-B-122D	Potassium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-B-122D	Sodium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-AP234-FD-5	Sulfate	-	-	J	Field duplicate RPD does not meet quality control criteria
92686679	MCD-AP234-FD-5	Calcium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-AP234-FD-5	Iron	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-AP234-FD-5	Magnesium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-AP234-FD-5	Potassium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686679	MCD-AP234-FD-5	Sodium	-	-	J	Field duplicate absolute difference does not meet quality control criteria
92686947	MCD-DGWC-19	Antimony	0.003	-	U	Method blank detection
92686947	MCD-DGWC-19	Chromium	0.005	-	U	Method blank detection
92686947	MCD-DGWC-20	Antimony	0.003	-	U	Method blank detection
92686947	MCD-DGWC-11	TDS	-	451	U	Equipment blank detection
92686947	MCD-DGWC-8	Sulfate	-	-	J-	Matrix Spike/Matrix Spike Duplicate below QC limits
92687817	MCD-UT01_US	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_US	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_US	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_US	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_US	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_US	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT02	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT02	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT02	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT02	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT02	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT02	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT03	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT03	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT03	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT03	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT03	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT03	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_DS	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_DS	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_DS	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_DS	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_DS	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-UT01_DS	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.1	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.1	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.1	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.1	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.1	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.1	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.2	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.2	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.2	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.2	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.2	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.2	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.4	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.4	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.4	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits

TABLE 2
Qualifier Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

92687817	MCD-CR+0.4	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.4	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR+0.4	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_DS	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_DS	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_DS	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_DS	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_DS	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_DS	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_US	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_US	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_US	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_US	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-DW_US	Fluoride	-	-	UJ	Cooler arrived outside of temperature limits
92687817	MCD-DW_US	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.2	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.2	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.2	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.2	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.2	Fluoride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.2	Sulfate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.5	TDS	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.5	Alkalinity, bicarbonate	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.5	Alkalinity, total	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.5	Chloride	-	-	J	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.5	Fluoride	-	-	UJ	Cooler arrived outside of temperature limits
92687817	MCD-CR-0.5	Sulfate	-	-	J	Cooler arrived outside of temperature limits

Abbreviations:
RL : Reporting limit
MDC : Minimum detectable concentration
MDL: Method detection limit
SDG : Sample delivery group
RPD: Relative percent difference

Qualifier
U: Non-detect
J+: Estimated, bias high
J-: Estimated, bias low
UJ: Non-detect, estimated

APPENDIX B

Data Validation Summary January-February 2024

Quality Control Review of Analytical Data- Ash Pond AP-2 and 3/4
Submitted by Pace Analytical Services, LLC
January - February 2024

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 30 and February 6, 2024. 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 cations (magnesium, sodium, and potassium), alkalinity, sulfide, and total 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 (TDS) (Standard Methods 2540C), Radium-226 (USEPA Method 9315), Radium-228 (USEPA Method 9320), Alkalinity by Titration (Standard Methods 2320B), and Sulfide (Standard Methods SM 4500-S2D). Additional surface water samples were collected and analyzed for USEPA Method 6020B, 6010D, 300.0, and Standard Methods 2540C, and SM2320B.

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020), and US Department of Energy, Evaluation of Radiochemical Data Usability (April 1997). The review included an assessment of the results for completeness, precision (laboratory and field duplicates, matrix spike/matrix spike duplicates), accuracy (laboratory control samples and matrix spike samples), and blank contamination (including field and laboratory blanks). Additionally, sample procedures, holding times and chains-of-custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytic methodology, method-specific criteria or professional judgment was used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met with the exception of total alkalinity and fluoride as described in the qualification sections below.

Detection Limits and Blanks: Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of

site-wide characterization. Detections were found in certain blank results, as described in the qualification sections below.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Representativeness: All holding time and sample preservation 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 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.
UJ	The analyte was not detected at a level greater than or equal to the reporting limit. However, the reporting limit is approximate and may be inaccurate or imprecise.

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 total alkalinity as CaCO3 results from SDG 92710886, had MS/MSD recoveries below QC criteria. The associated sample was qualified as estimated, non-detect (UJ).
- Certain fluoride results from SDG 92710886 had MS/MSD recoveries exceeding QC criteria. The associated sample was qualified as estimated, bias high (J+).
- Certain isotope, radium-228, results from SDGs 92711292 and 92710974 were detected at a similar level in the associated blank sample. As shown in Table 2, the results were qualified U, and the Minimum Detectable Concentrations (MDCs) were raised to the result value.
- As shown on table 2, certain total radium results from SDG 92710974 were qualified U when isotope radium-228 was qualified U for blank contamination and radium-226 concentrations were below the MDC. The Minimum Detectable Concentrations (MDCs) were raised to the result value.
- As shown on table 2, certain total radium results from SDGs 92711292 and 92710974 were qualified J+ when isotope radium-228 was qualified U for blank contamination and radium-226 concentrations were above the MDC.

WSP reviewed the data from samples collected at Plant McDonough CCR Ash Pond AP-2 and 3/4 between January 30 and February 6, 2024, 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

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92710968	MCD-DGWA-53	1/30/2024	92710968001	WG	-	X	X	X	X	X	X	X	-	-
92710968	MCD-DGWA-71	1/30/2024	92710968002	WG	-	X	X	X	X	X	X	X	-	-
92710986	MCD-DGWA-53	1/30/2024	92710986001	WG	-	-	-	-	-	-	-	-	X	X
92710986	MCD-DGWA-71	1/30/2024	92710986002	WG	-	-	-	-	-	-	-	-	X	X
92711279	MCD-B-100	1/31/2024	92711279001	WG	-	X	X	X	X	X	X	X	-	-
92711279	MCD-B-62	2/1/2024	92711279002	WG	-	X	X	X	X	X	X	X	-	-
92711290	MCD-B-100	1/31/2024	92711290001	WG	-	-	-	-	-	-	-	-	X	X
92711290	MCD-B-62	2/1/2024	92711290002	WG	-	-	-	-	-	-	-	-	X	X
92710944	MCD-B-63	2/1/2024	92710944004	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-66	2/1/2024	92710944005	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-82	2/1/2024	92710944006	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-122D	2/1/2024	92710944007	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-108D	2/1/2024	92710944008	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-107D	2/1/2024	92710944009	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-83	2/1/2024	92710944010	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-AP234-FD-4	2/1/2024	92710944011	WG	FD (MCD-B-63)	X	X	X	X	X	X	X	-	-
92710944	MCD-B-101D	2/2/2024	92710944012	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-102D	2/2/2024	92710944013	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-106D	2/2/2024	92710944014	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-AP234-FB-4	2/2/2024	92710944015	WQ	FB (MCD-B-101D)	X	X	X	X	X	X	X	-	-
92710944	MCD-AP234-FD-5	2/2/2024	92710944016	WG	FD (MCD-B-106D)	X	X	X	X	X	X	X	-	-
92710944	MCD-B-88	2/5/2024	92710944017	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-120D	2/5/2024	92710944018	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-77	2/5/2024	92710944019	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-104D	2/5/2024	92710944020	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-111D	2/5/2024	92710944021	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-125D	2/5/2024	92710944022	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-B-56	2/5/2024	92710944023	WG	-	X	X	X	X	X	X	X	-	-
92710944	MCD-AP234-EB-4	2/5/2024	92710944024	WQ	EB (MCD-B-56)	X	X	X	X	X	X	X	-	-
92710944	MCD-AP234-EB-5	2/5/2024	92710944025	WQ	EB (MCD-B-88)	X	X	X	X	X	X	X	-	-
92710944	MCD-AP234-FB-5	2/5/2024	92710944026	WQ	FB (MCD-B-77)	X	X	X	X	X	X	X	-	-
92710976	MCD-B-63	2/1/2024	92710976004	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-66	2/1/2024	92710976005	WG	-	-	-	-	-	-	-	-	X	X

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92710976	MCD-B-82	2/1/2024	92710976006	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-122D	2/1/2024	92710976007	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-108D	2/1/2024	92710976008	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-107D	2/1/2024	92710976009	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-83	2/1/2024	92710976010	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-AP234-FD-4	2/1/2024	92710976011	WG	FD (MCD-B-63)	-	-	-	-	-	-	-	X	X
92710976	MCD-B-101D	2/2/2024	92710976012	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-102D	2/2/2024	92710976013	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-106D	2/2/2024	92710976014	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-AP234-FB-4	2/2/2024	92710976015	WQ	FB (MCD-B-101D)	-	-	-	-	-	-	-	X	X
92710976	MCD-AP234-FD-5	2/2/2024	92710976016	WG	FD (MCD-B-106D)	-	-	-	-	-	-	-	X	X
92710976	MCD-B-88	2/5/2024	92710976017	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-120D	2/5/2024	92710976018	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-77	2/5/2024	92710976019	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-104D	2/5/2024	92710976020	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-111D	2/5/2024	92710976021	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-125D	2/5/2024	92710976022	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-B-56	2/5/2024	92710976023	WG	-	-	-	-	-	-	-	-	X	X
92710976	MCD-AP234-EB-4	2/5/2024	92710976024	WQ	EB (MCD-B-56)	-	-	-	-	-	-	-	X	X
92710976	MCD-AP234-EB-5	2/5/2024	92710976025	WQ	EB (MCD-B-88)	-	-	-	-	-	-	-	X	X
92710976	MCD-AP234-FB-5	2/5/2024	92710976026	WQ	FB (MCD-B-77)	-	-	-	-	-	-	-	X	X
92711281	MCD-B-97	1/31/2024	92711281001	WG	-	X	X	X	X	X	X	X	-	-
92711281	MCD-B-92	1/30/2024	92710944001	WG	-	X	X	X	X	X	X	X	-	-
92711281	MCD-B-93	1/30/2024	92710944002	WG	-	X	X	X	X	X	X	X	-	-
92711281	MCD-B-98	1/30/2024	92710944003	WG	-	X	X	X	X	X	X	X	-	-
92711292	MCD-B-97	1/31/2024	92711292001	WG	-	-	-	-	-	-	-	-	X	X
92711292	MCD-B-92	1/30/2024	92711292002	WG	-	-	-	-	-	-	-	-	X	X
92711292	MCD-B-93	1/30/2024	92711292003	WG	-	-	-	-	-	-	-	-	X	X
92711292	MCD-B-98	1/30/2024	92711292004	WG	-	-	-	-	-	-	-	-	X	X
92710886	MCD-DGWC-42	1/30/2024	92710886001	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-AP234-FD-2	1/30/2024	92710886002	WG	FD (MCD-DGWC-42)	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-21	1/31/2024	92710886003	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-22	1/31/2024	92710886004	WG	-	X	X	X	X	X	X	X	-	-

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92710886	MCD-DGWC-23	1/31/2024	92710886005	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-13	1/31/2024	92710886006	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-AP234-FD-3	1/31/2024	92710886007	WG	FD (MCD-DGWC-21)	X	X	X	X	X	X	X	-	-
92710886	MCD-AP234-FB-2	1/31/2024	92710886008	WQ	FB (MCD-DGWC-13)	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-2	2/1/2024	92710886009	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-4	2/1/2024	92710886010	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-5	2/1/2024	92710886011	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-8	2/1/2024	92710886012	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-11	2/1/2024	92710886013	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-19	2/1/2024	92710886014	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-20	2/1/2024	92710886015	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-AP234-EB-2	2/1/2024	92710886016	WQ	EB (MCD-DGWC-11)	X	X	X	X	X	X	X	-	-
92710886	MCD-AP234-EB-3	2/1/2024	92710886017	WQ	EB (MCD-DGWC-19)	X	X	X	X	X	X	X	-	-
92710886	MCD-AP234-FB-3	2/1/2024	92710886018	WQ	FB (MCD-DGWC-20)	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-10	2/2/2024	92710886019	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-12	2/2/2024	92710886020	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-17	2/6/2024	92710886021	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-47	2/5/2024	92710886022	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-48	2/5/2024	92710886023	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-15	2/5/2024	92710886024	WG	-	X	X	X	X	X	X	X	-	-
92710886	MCD-DGWC-14	2/5/2024	92710886025	WG	-	X	X	X	X	X	X	X	-	-
92710974	MCD-DGWC-42	1/30/2024	92710974001	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-AP234-FD-2	1/30/2024	92710974002	WG	FD (MCD-DGWC-42)	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-21	1/31/2024	92710974003	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-22	1/31/2024	92710974004	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-23	1/31/2024	92710974005	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-13	1/31/2024	92710974006	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-AP234-FD-3	1/31/2024	92710974007	WG	FD (MCD-DGWC-21)	-	-	-	-	-	-	-	X	X
92710974	MCD-AP234-FB-2	1/31/2024	92710974008	WQ	FB (MCD-DGWC-13)	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-2	2/1/2024	92710974009	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-4	2/1/2024	92710974010	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-5	2/1/2024	92710974011	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-8	2/1/2024	92710974012	WG	-	-	-	-	-	-	-	-	X	X

TABLE 1

Sample Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

						Analyses								
SDGs	***Field Identification***	***Collection Date***	***Lab Identification***	***Matrix***	***QC Samples***	**Total Mercury (EPA 7470A)**	**Alkalinity (SM 2320B)**	**TDS (SM 2540C-2011)**	**Total Metals (EPA 6020B)**	**Anions (EPA 300.0)**	**Cations (EPA 6010D)**	**Sulfide (SM 4500-S2D)**	**Radium-226 (EPA 9315)**	**Radium-228 (EPA 9320)**
92710974	MCD-DGWC-11	2/1/2024	92710974013	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-19	2/1/2024	92710974014	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-20	2/1/2024	92710974015	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-AP234-EB-2	2/1/2024	92710974016	WQ	EB (MCD-DGWC-11)	-	-	-	-	-	-	-	X	X
92710974	MCD-AP234-EB-3	2/1/2024	92710974017	WQ	EB (MCD-DGWC-19)	-	-	-	-	-	-	-	X	X
92710974	MCD-AP234-FB-3	2/1/2024	92710974018	WQ	FB (MCD-DGWC-20)	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-10	2/2/2024	92710974019	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-12	2/2/2024	92710974020	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-17	2/6/2024	92710974021	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-47	2/5/2024	92710974022	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-48	2/5/2024	92710974023	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-15	2/5/2024	92710974024	WG	-	-	-	-	-	-	-	-	X	X
92710974	MCD-DGWC-14	2/5/2024	92710974025	WG	-	-	-	-	-	-	-	-	X	X
92711943	MCD-UT01_US	2/6/2024	92711943001	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-UT02	2/6/2024	92711943002	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-UT03	2/6/2024	92711943003	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-UT01_DS	2/6/2024	92711943004	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-CR-0.1	2/6/2024	92711943005	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-CR+0.2	2/6/2024	92711943006	WS		-	X	X	X	X	X	-	-	-
92711943	MCD-CR+0.4	2/6/2024	92711943007	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-DW_DS	2/6/2024	92711943008	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-DW_US	2/6/2024	92711943009	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-CR-0.2	2/6/2024	92711943010	WS	-	-	X	X	X	X	X	-	-	-
92711943	MCD-CR-0.5	2/6/2024	92711943011	WS	-	-	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

wsp GOLDER

TABLE 2
Qualifier Summary Table
SCS Plant McDonough Ash Pond 2 and 3/4

SDG	Sample Name	Constituent	New Result	New RL or MDC	Qualifier	Reason	Reason Code
92711292	MCD-B-97	Radium-228	-	0.766	U	Contamination detected in the lab blank greater than or equal to the Quantitation Limit (QL).	BLH
92711292	MCD-B-97	Total radium	-	-	J+	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710886	MCD-DGWC-20	Alkalinity, Total as CaCO3	-	-	UJ	MS Percent Recovery outside control limit	MS1
92710886	MCD-DGWC-17	Fluoride	-	-	J+	MS/MSD Percent Recoveries outside control limit	MS1
92710974	MCD-DGWC-47	Radium-228	-	1.06	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-48	Radium-228	-	1.32	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-23	Radium-228	-	0.989	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-10	Radium-228	-	1.2	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-20	Radium-228	-	1.23	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-4	Radium-228	-	0.987	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-8	Radium-228	-	0.979	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-47	Total radium	-	-	J+	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-48	Total radium	-	1.55	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-23	Total radium	-	1.1	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-10	Total radium	-	-	J+	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-20	Total radium	-	1.38	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-4	Total radium	-	-	J+	Contamination detected in the lab blank greater than or equal to the QL.	BLH
92710974	MCD-DGWC-8	Total radium	-	1.18	U	Contamination detected in the lab blank greater than or equal to the QL.	BLH

Abbreviations:
RL : Reporting limit
MDC : Minimum detectable concentration
SDG : Sample delivery group

Qualifier
U: Non-detect
J+: Estimated, bias high
UJ: Non-detect, estimated

APPENDIX B

Laboratory Accreditation

June 13, 2023

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:

Name of Laboratory:	Pace Analytical Services, LLC – Asheville, NC
Name of Accrediting Agency:	Commonwealth of Virginia Department of General Services Division of Consolidated Laboratory Services [Primary NELAP Accreditation]
Accreditation Number:	460222
Scopes of Accreditation:	Non-Potable Water Solid and Chemical Materials
Accreditation Effective Date:	June 15, 2023
Accreditation Expiration Date:	June 14, 2024

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

PEOPLE ADVANCING SCIENCE

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:

Laboratory:	**Pace Analytical Services, LLC – Atlanta GA** 110 Technology Parkway Peachtree Corners, GA 30092 Phone: (770) 734-4200 Fax: (770) 734-4201
Accredited By:	Authority Florida Department of Health (FL - DOH) Program Florida Environmental Laboratory Certification Program (TNI/NELAP)
Accreditation ID:	E87315
Scope of Accreditation:	Non-Potable Water (NPW) -General Chemistry (Wet Chemistry) -Metals -Microbiology Solid and Chemical Materials (SCM) -General Chemistry -Metals - Microbiology
Effective Dates:	July 1, 2023 – June 30, 2024

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,

Kyle Henderson
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 1470A, East Tower
Atlanta, Georgia 30334
404-463-1511

Ms. LeighAnn Miller, Laboratory Director
Pace Analytical Services, LLC - Pittsburgh
1638 Roseytown Road, Suites 2, 3 and 4
Greensburg, PA 15601

February 8, 2023

RE: Certification by Reciprocity
Pace Analytical Services, Inc. - Pittsburgh
Georgia ID #C040

Dear Ms. Miller:

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, 2024. 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.

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

Lynne Grubb
Laboratory Certification Officer
Drinking Water Compliance Unit

Sean Earley
Program Manager
Drinking Water Compliance Unit

PACE ANALYTICAL SERVICES, LLC - PITTSBURGH (GA LAB ID# C040)
1638 Roseytown Road, Suites 2,3 and 4, Greensburg, PA 15601
Effective April 1, 2023 - March 31, 2024

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 Table and Well Maintenance and Repair Documentation

APPENDIX C

Well Condition Inspection Table
September 2023

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
DGWA-53	NO	YES	NO	YES
DGWA-70A	YES	YES	NO	YES
DGWA-71	YES	YES	NO	YES
DGWC-37	YES	YES	NO	YES
DGWC-38	YES	YES	NO	YES
DGWC-39	NO	YES	NO	YES
DGWC-40	YES	YES	NO	YES
DGWC-67	YES	YES	NO	YES
DGWC-68A	YES	YES	NO	YES
DGWC-69	YES	YES	NO	YES
DGWC-121	YES	YES	NO	YES
B-62	YES	YES	NO	YES
B-100	YES	YES	NO	YES
B-105D	YES	YES	NO	YES
B-112D	YES	YES	NO	YES
DGWC-2	YES	YES	NO	YES
DGWC-4	YES	YES	NO	YES
DGWC-5	YES	YES	NO	YES
DGWC-8	YES	YES	NO	YES
DGWC-9	YES	YES	NO	YES
DGWC-10	YES	YES	NO	YES
DGWC-11	YES	YES	NO	YES
DGWC-12	YES	YES	NO	YES
DGWC-13	YES	YES	NO	YES
DGWC-14	YES	YES	NO	YES
DGWC-15	YES	YES	NO	YES
DGWC-17	YES	YES	NO	YES
DGWC-19	YES	YES	NO	YES
DGWC-20	YES	YES	NO	YES
DGWC-21	YES	YES	NO	YES
DGWC-22	NO	YES	NO	YES
DGWC-23	YES	YES	NO	YES
DGWC-42	YES	YES	NO	YES
DGWC-47	NO	YES	NO	YES
DGWC-48	YES	YES	NO	NO
B-56	YES	YES	NO	YES
B-62	YES	YES	NO	YES
B-63	YES	NO	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
B-66	YES	YES	NO	YES
B-77	YES	YES	NO	YES
B-82	YES	YES	NO	YES
B-83	YES	YES	NO	YES
B-88	YES	YES	NO	YES
B-92	NO	YES	YES	YES
B-93	NO	YES	YES	YES
B-97	YES	YES	YES	YES
B-98	NO	YES	YES	YES
B-100	YES	YES	NO	YES
B-101D	YES	YES	NO	YES
B-102D	YES	YES	NO	YES
B-104D	YES	YES	NO	NO
B-106D	YES	YES	NO	YES
B-107D	YES	YES	NO	YES
B-108D	YES	YES	NO	YES
B-111D	YES	YES	NO	YES
B-120D	YES	YES	NO	YES
B-122D	YES	YES	NO	YES
B-125D	YES	YES	NO	YES
B-3	YES	YES	NO	YES
B-6	YES	YES	NO	YES
B-7	YES	YES	NO	YES
B-16	YES	YES	NO	YES
B-18	YES	YES	NO	YES
B-24	YES	YES	NO	YES
B-25	YES	YES	NO	YES
B-26	YES	YES	NO	YES
B-28	YES	YES	NO	YES
B-29	YES	YES	NO	YES
B-31	YES	YES	NO	YES
B-41	NO	YES	NO	YES
B-50	YES	YES	NO	YES
B-51	YES	YES	NO	YES
B-52	YES	YES	NO	YES
B-54	YES	YES	NO	YES
B-55	YES	YES	NO	YES
B-57	YES	YES	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
B-58	YES	YES	NO	YES
B-59	YES	YES	NO	YES
B-60	YES	YES	NO	YES
B-61	YES	YES	NO	YES
B-64	YES	YES	NO	YES
B-65	YES	YES	NO	YES
B-68	YES	YES	NO	YES
B-72	YES	YES	NO	YES
B-73	YES	YES	NO	YES
B-74	YES	YES	NO	YES
B-76	YES	YES	NO	YES
B-78	YES	YES	NO	YES
B-79	YES	YES	NO	YES
B-80	YES	YES	NO	YES
B-81	YES	YES	NO	YES
B-84	YES	YES	NO	YES
B-85	YES	YES	NO	YES
B-86	YES	YES	NO	YES
B-87	NO	YES	NO	YES
B-89	YES	YES	NO	YES
B-90	YES	YES	YES	YES
B-91	YES	YES	YES	YES
B-94	YES	YES	NO	YES
B-95	YES	YES	YES	YES
B-96	YES	YES	YES	YES
B-99	YES	YES	NO	YES
B-103D	YES	YES	NO	YES
B-109D	YES	YES	NO	YES
B-110D	YES	YES	NO	YES
B-113D	YES	YES	NO	YES
B-115D	YES	YES	NO	YES
B-116D	YES	YES	NO	YES
B-117D	YES	YES	NO	YES
B-118	YES	YES	NO	YES
B-119D	YES	YES	NO	YES
B-123D	YES	YES	NO	YES
AP-1-B-3	YES	YES	NO	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
AP-1-B-7	YES	YES	NO	YES
AP-1-B-8	YES	YES	NO	YES
DW-1	YES	YES	NO	YES
DW-2	YES	YES	NO	YES
DW-3	YES	YES	NO	YES
DW-4	YES	YES	NO	YES
WT-1	YES	YES	NO	YES
WT-2	YES	YES	NO	YES
WT-3	YES	YES	NO	YES
WT-4	YES	YES	NO	YES
WT-5	YES	YES	NO	YES
WT-6	YES	YES	NO	YES
WT-7	YES	YES	NO	YES
ET-1	YES	YES	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
DGWA-53	YES	YES	YES	YES	YES
DGWA-70A	YES	YES	YES	YES	YES
DGWA-71	YES	YES	YES	YES	YES
DGWC-37	YES	YES	YES	YES	YES
DGWC-38	YES	YES	YES	YES	YES
DGWC-39	YES	YES	YES	YES	YES
DGWC-40	YES	YES	YES	YES	YES
DGWC-67	YES	YES	YES	YES	YES
DGWC-68A	YES	YES	YES	YES	YES
DGWC-69	YES	YES	YES	YES	YES
DGWC-121	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES
B-105D	YES	YES	YES	YES	YES
B-112D	YES	YES	YES	YES	YES
DGWC-2	YES	YES	YES	YES	YES
DGWC-4	YES	YES	YES	YES	YES
DGWC-5	YES	YES	YES	YES	YES
DGWC-8	YES	YES	YES	YES	YES
DGWC-9	YES	YES	YES	YES	YES
DGWC-10	YES	YES	YES	YES	YES
DGWC-11	YES	YES	YES	YES	YES
DGWC-12	YES	YES	YES	YES	YES
DGWC-13	YES	YES	YES	YES	YES
DGWC-14	YES	YES	YES	YES	YES
DGWC-15	YES	YES	YES	YES	YES
DGWC-17	YES	YES	YES	YES	YES
DGWC-19	YES	YES	YES	YES	YES
DGWC-20	YES	YES	YES	YES	YES
DGWC-21	YES	YES	YES	YES	YES
DGWC-22	YES	YES	YES	YES	YES
DGWC-23	YES	YES	YES	YES	YES
DGWC-42	YES	YES	YES	YES	YES
DGWC-47	YES	YES	YES	YES	YES
DGWC-48	YES	YES	YES	YES	YES
B-56	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES
B-63	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
B-66	YES	YES	YES	YES	YES
B-77	YES	YES	YES	YES	YES
B-82	YES	YES	YES	YES	YES
B-83	YES	YES	YES	YES	YES
B-88	YES	YES	YES	YES	YES
B-92	YES	YES	YES	YES	YES
B-93	YES	YES	YES	YES	YES
B-97	YES	YES	YES	YES	YES
B-98	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES
B-101D	YES	YES	YES	YES	YES
B-102D	YES	YES	YES	YES	YES
B-104D	YES	YES	YES	YES	YES
B-106D	YES	YES	YES	YES	YES
B-107D	YES	YES	YES	YES	YES
B-108D	YES	YES	YES	YES	YES
B-111D	YES	YES	YES	YES	YES
B-120D	YES	YES	YES	YES	YES
B-122D	YES	YES	YES	YES	YES
B-125D	YES	YES	YES	NO	YES
B-3	YES	YES	YES	YES	YES
B-6	YES	YES	YES	YES	YES
B-7	YES	YES	YES	YES	YES
B-16	YES	YES	YES	YES	YES
B-18	YES	YES	YES	YES	YES
B-24	YES	YES	YES	YES	YES
B-25	YES	YES	YES	YES	YES
B-26	YES	YES	YES	YES	YES
B-28	YES	YES	YES	YES	YES
B-29	YES	YES	YES	YES	YES
B-31	YES	YES	YES	YES	YES
B-41	YES	YES	YES	YES	YES
B-50	YES	YES	YES	YES	YES
B-51	YES	YES	YES	YES	YES
B-52	YES	YES	YES	YES	YES
B-54	YES	YES	YES	YES	YES
B-55	YES	YES	YES	YES	YES
B-57	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
B-58	YES	YES	YES	YES	YES
B-59	YES	YES	YES	YES	YES
B-60	YES	YES	YES	YES	YES
B-61	YES	YES	YES	YES	YES
B-64	YES	YES	YES	YES	YES
B-65	YES	YES	YES	YES	YES
B-68	YES	YES	YES	YES	YES
B-72	YES	YES	YES	YES	YES
B-73	YES	YES	YES	YES	YES
B-74	YES	YES	YES	YES	YES
B-76	YES	YES	YES	YES	YES
B-78	YES	YES	YES	YES	YES
B-79	YES	YES	YES	YES	YES
B-80	NO	YES	YES	YES	YES
B-81	YES	YES	YES	YES	YES
B-84	YES	YES	YES	YES	YES
B-85	YES	YES	YES	YES	YES
B-86	NO	YES	YES	YES	YES
B-87	YES	YES	YES	YES	YES
B-89	YES	YES	YES	YES	YES
B-90	YES	YES	YES	YES	YES
B-91	YES	YES	YES	YES	YES
B-94	YES	YES	YES	YES	YES
B-95	YES	YES	NO	YES	NO
B-96	YES	YES	NO	YES	NO
B-99	YES	YES	YES	YES	YES
B-103D	YES	YES	YES	YES	YES
B-109D	YES	YES	YES	YES	YES
B-110D	YES	YES	YES	YES	YES
B-113D	YES	YES	YES	YES	YES
B-115D	YES	YES	YES	YES	YES
B-116D	YES	YES	YES	YES	YES
B-117D	YES	YES	YES	YES	YES
B-118	YES	YES	YES	YES	YES
B-119D	YES	YES	YES	YES	YES
B-123D	YES	YES	YES	YES	YES
AP-1-B-3	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
AP-1-B-7	YES	YES	YES	YES	YES
AP-1-B-8	YES	YES	YES	YES	YES
DW-1	YES	YES	YES	YES	YES
DW-2	YES	YES	YES	YES	YES
DW-3	YES	YES	YES	YES	YES
DW-4	YES	YES	YES	YES	YES
WT-1	NO	NO	YES	YES	YES
WT-2	YES	YES	YES	YES	YES
WT-3	YES	YES	YES	YES	YES
WT-4	YES	YES	YES	YES	YES
WT-5	YES	YES	YES	YES	YES
WT-6	NO	NO	YES	YES	YES
WT-7	NO	NO	YES	YES	YES
ET-1	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
DGWA-53	YES	YES	YES	YES	YES	YES
DGWA-70A	YES	YES	YES	YES	YES	YES
DGWA-71	YES	YES	YES	YES	YES	YES
DGWC-37	YES	YES	YES	YES	YES	YES
DGWC-38	YES	YES	YES	YES	YES	YES
DGWC-39	YES	YES	YES	YES	YES	YES
DGWC-40	YES	YES	YES	YES	YES	YES
DGWC-67	YES	YES	YES	YES	YES	YES
DGWC-68A	YES	YES	NO	NO	YES	YES
DGWC-69	YES	YES	YES	YES	YES	YES
DGWC-121	YES	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES	YES
B-105D	YES	YES	YES	YES	YES	YES
B-112D	YES	YES	YES	YES	YES	YES
DGWC-2	YES	YES	YES	YES	YES	YES
DGWC-4	YES	YES	YES	YES	YES	YES
DGWC-5	YES	YES	YES	YES	YES	YES
DGWC-8	YES	YES	YES	YES	YES	YES
DGWC-9	YES	YES	YES	YES	YES	YES
DGWC-10	YES	YES	YES	YES	YES	YES
DGWC-11	YES	YES	YES	YES	YES	YES
DGWC-12	YES	YES	YES	YES	YES	YES
DGWC-13	YES	YES	YES	YES	YES	YES
DGWC-14	YES	YES	YES	YES	YES	YES
DGWC-15	YES	YES	YES	YES	YES	YES
DGWC-17	YES	YES	YES	YES	YES	YES
DGWC-19	YES	YES	YES	YES	YES	YES
DGWC-20	YES	YES	YES	YES	YES	YES
DGWC-21	YES	YES	YES	YES	YES	YES
DGWC-22	YES	YES	YES	YES	YES	YES
DGWC-23	YES	YES	YES	YES	YES	YES
DGWC-42	YES	YES	YES	YES	YES	YES
DGWC-47	YES	YES	YES	YES	YES	YES
DGWC-48	YES	NO	YES	YES	YES	YES
B-56	YES	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES	YES
B-63	YES	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
B-66	YES	YES	YES	YES	YES	YES
B-77	YES	YES	YES	YES	YES	YES
B-82	YES	YES	YES	YES	YES	YES
B-83	YES	YES	YES	YES	YES	YES
B-88	YES	YES	YES	YES	YES	YES
B-92	YES	YES	YES	YES	YES	YES
B-93	YES	YES	YES	YES	YES	YES
B-97	YES	YES	NO	NO	YES	YES
B-98	YES	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES	YES
B-101D	YES	YES	YES	YES	YES	YES
B-102D	YES	YES	YES	YES	YES	YES
B-104D	YES	NO	YES	YES	YES	YES
B-106D	YES	YES	YES	YES	YES	YES
B-107D	YES	YES	YES	YES	YES	YES
B-108D	YES	YES	YES	YES	YES	YES
B-111D	YES	YES	YES	YES	YES	YES
B-120D	YES	YES	YES	YES	YES	YES
B-122D	YES	YES	YES	YES	YES	YES
B-125D	YES	YES	YES	YES	YES	YES
B-3	YES	YES	YES	YES	YES	YES
B-6	YES	YES	YES	YES	YES	YES
B-7	YES	YES	YES	YES	YES	YES
B-16	YES	YES	YES	YES	YES	YES
B-18	YES	YES	YES	YES	YES	YES
B-24	YES	YES	YES	YES	YES	YES
B-25	YES	YES	YES	YES	YES	YES
B-26	YES	YES	YES	YES	YES	YES
B-28	YES	YES	YES	YES	YES	YES
B-29	YES	YES	YES	YES	YES	YES
B-31	YES	YES	YES	YES	YES	YES
B-41	YES	YES	YES	YES	YES	YES
B-50	YES	YES	YES	YES	YES	YES
B-51	YES	YES	YES	YES	YES	YES
B-52	YES	YES	YES	YES	YES	YES
B-54	YES	YES	YES	YES	YES	YES
B-55	YES	YES	YES	YES	YES	YES
B-57	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

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Well ID:	Surface Pad			Internal Casing		
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B-58	YES	YES	YES	YES	YES	YES
B-59	YES	YES	YES	YES	YES	YES
B-60	YES	YES	YES	YES	YES	YES
B-61	YES	YES	YES	YES	YES	YES
B-64	YES	YES	YES	YES	YES	YES
B-65	YES	YES	YES	YES	YES	YES
B-68	YES	YES	YES	YES	YES	YES
B-72	YES	YES	NO	NO	YES	YES
B-73	YES	YES	YES	YES	YES	YES
B-74	YES	YES	NO	NO	YES	YES
B-76	YES	YES	YES	YES	YES	YES
B-78	YES	YES	YES	YES	YES	YES
B-79	YES	YES	YES	YES	YES	YES
B-80	YES	YES	YES	YES	YES	YES
B-81	YES	YES	YES	YES	YES	YES
B-84	YES	YES	YES	YES	YES	YES
B-85	YES	YES	YES	YES	YES	YES
B-86	YES	YES	YES	YES	YES	YES
B-87	YES	YES	YES	YES	YES	YES
B-89	YES	YES	YES	YES	YES	YES
B-90	YES	YES	YES	YES	YES	YES
B-91	YES	YES	YES	YES	YES	YES
B-94	YES	YES	YES	YES	YES	YES
B-95	YES	YES	YES	YES	YES	NO
B-96	YES	YES	YES	YES	YES	NO
B-99	YES	YES	YES	YES	YES	YES
B-103D	YES	YES	YES	YES	YES	YES
B-109D	YES	YES	YES	YES	YES	YES
B-110D	YES	YES	YES	YES	YES	YES
B-113D	YES	YES	YES	YES	YES	YES
B-115D	YES	YES	YES	YES	YES	YES
B-116D	YES	YES	YES	YES	YES	YES
B-117D	YES	YES	YES	YES	YES	YES
B-118	YES	YES	YES	YES	YES	YES
B-119D	YES	YES	YES	YES	YES	YES
B-123D	YES	YES	YES	YES	YES	YES
AP-1-B-3	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 9/5/2023

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Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
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AP-1-B-7	YES	YES	YES	YES	YES	YES
AP-1-B-8	YES	YES	YES	YES	YES	YES
DW-1	YES	YES	YES	YES	YES	YES
DW-2	YES	YES	YES	YES	YES	YES
DW-3	YES	YES	YES	YES	YES	YES
DW-4	YES	YES	YES	YES	YES	YES
WT-1	NO	YES	NO	YES	YES	YES
WT-2	YES	YES	YES	YES	YES	YES
WT-3	YES	YES	YES	YES	YES	YES
WT-4	YES	YES	YES	YES	YES	YES
WT-5	YES	YES	YES	YES	YES	YES
WT-6	NO	YES	NO	YES	YES	YES
WT-7	NO	YES	NO	YES	YES	YES
ET-1	YES	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
DGWA-53	Overgrown, clear brush around well
DGWA-70A	
DGWA-71	
DGWC-37	
DGWC-38	
DGWC-39	Overgrown, clear brush around well and clear path to well
DGWC-40	
DGWC-67	
DGWC-68A	Needs flat well cap to properly close well
DGWC-69	
DGWC-121	
B-62	
B-100	
B-105D	
B-112D	
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	Clear ants from around well
DGWC-23	
DGWC-42	
DGWC-47	Clear ants from around well
DGWC-48	Standing water and mud on well pad from recent construction- flow path need diverting
B-56	
B-62	
B-63	Needs suitable identification

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
B-66	
B-77	
B-82	
B-83	
B-88	
B-92	Clear ants from around well
B-93	Overgrown, clear brush around well
B-97	Needs flat well cap to properly close well
B-98	Overgrown, clear brush around well
B-100	
B-101D	
B-102D	
B-104D	Standing water and mud on well pad from recent construction- flow path need diverting
B-106D	
B-107D	
B-108D	
B-111D	
B-120D	
B-122D	
B-125D	~2 ft of loose casing near top of well, needs to be filled with pea gravel
B-3	
B-6	
B-7	
B-16	
B-18	
B-24	
B-25	
B-26	
B-28	
B-29	
B-31	
B-41	Remove wasp nest from well
B-50	
B-51	
B-52	
B-54	
B-55	
B-57	

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
B-58	
B-59	
B-60	
B-61	
B-64	
B-65	
B-68	
B-72	Needs flat well cap to properly close well
B-73	
B-74	Needs flat well cap to properly close well
B-76	
B-78	
B-79	
B-80	Casing lid askew and tilted, needs to be replaced
B-81	
B-84	
B-85	
B-86	Missing bolt needs to be replaced
B-87	Overgrown, clear brush around well
B-89	
B-90	
B-91	
B-94	
B-95	Need new lock, weep hole to depressurize well
B-96	Needs lock bar, weep hole to depressurize well
B-99	
B-103D	
B-109D	
B-110D	
B-113D	
B-115D	
B-116D	
B-117D	
B-118	
B-119D	
B-123D	
AP-1-B-3	

Site Name: Plant McDonough

Well Inspection

Date: 9/5/2023

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
AP-1-B-7	
AP-1-B-8	
DW-1	
DW-2	
DW-3	
DW-4	
WT-1	Staff gauge- gauge tilted and innacurate. Needs to be straightened or replaced
WT-2	
WT-3	
WT-4	
WT-5	
WT-6	Staff gauge- gauge destroyed by felled tree. Needs to be replaced
WT-7	Staff gauge- gauge tilted and innacurate. Needs to be straightened or replaced
ET-1	

APPENDIX C

Well Condition Inspection Table
January-February 2024

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
DGWA-53	YES	YES	NO	YES
DGWA-70A	YES	YES	NO	YES
DGWA-71	YES	YES	NO	YES
DGWC-37	YES	YES	NO	YES
DGWC-38	YES	YES	NO	YES
DGWC-39	YES	YES	NO	YES
DGWC-40	YES	YES	NO	YES
DGWC-67	YES	YES	NO	YES
DGWC-68A	YES	YES	NO	YES
DGWC-69	YES	YES	NO	YES
DGWC-121	YES	YES	NO	YES
B-62	YES	YES	NO	YES
B-100	YES	YES	NO	YES
B-105D	YES	YES	NO	YES
B-112D	YES	YES	NO	YES
DGWC-2	YES	YES	NO	YES
DGWC-4	YES	YES	NO	YES
DGWC-5	YES	YES	NO	YES
DGWC-8	YES	YES	NO	YES
DGWC-9	YES	YES	NO	YES
DGWC-10	YES	YES	NO	YES
DGWC-11	YES	YES	NO	YES
DGWC-12	YES	YES	NO	YES
DGWC-13	YES	YES	NO	YES
DGWC-14	YES	YES	NO	YES
DGWC-15	YES	YES	NO	YES
DGWC-17	YES	YES	NO	YES
DGWC-19	YES	YES	NO	YES
DGWC-20	YES	YES	NO	YES
DGWC-21	YES	YES	NO	YES
DGWC-22	YES	YES	NO	YES
DGWC-23	YES	YES	NO	YES
DGWC-42	YES	YES	NO	YES
DGWC-47	YES	YES	NO	YES
DGWC-48	YES	YES	NO	NO
B-56	YES	YES	NO	YES
B-63	YES	NO	NO	YES
B-66	YES	YES	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
B-77	YES	YES	NO	YES
B-82	YES	YES	NO	YES
B-83	YES	YES	NO	YES
B-88	YES	YES	NO	YES
B-92	YES	YES	YES	YES
B-93	YES	YES	YES	YES
B-97	YES	YES	YES	YES
B-98	YES	YES	YES	YES
B-101D	YES	YES	NO	YES
B-102D	YES	YES	NO	YES
B-104D	YES	YES	NO	YES
B-106D	YES	YES	NO	YES
B-107D	YES	YES	NO	YES
B-108D	YES	YES	NO	YES
B-111D	YES	YES	NO	YES
B-120D	YES	YES	NO	YES
B-122D	YES	YES	NO	YES
B-125D	YES	YES	YES	YES
B-3	YES	YES	NO	YES
B-6	YES	YES	NO	YES
B-7	YES	YES	NO	YES
B-16	YES	YES	NO	YES
B-18	YES	YES	NO	YES
B-24	YES	YES	NO	YES
B-25	YES	YES	NO	YES
B-26	YES	YES	NO	YES
B-28	YES	YES	NO	YES
B-29	YES	YES	NO	YES
B-31	YES	YES	NO	YES
B-41	YES	YES	NO	YES
B-50	YES	YES	NO	YES
B-51	YES	YES	NO	YES
B-52	YES	YES	NO	YES
B-54	YES	YES	NO	YES
B-55	YES	YES	NO	YES
B-57	YES	YES	NO	YES
B-58	YES	YES	NO	YES
B-59	YES	YES	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
B-60	YES	YES	NO	YES
B-61	YES	YES	NO	YES
B-64	YES	YES	NO	YES
B-65	YES	YES	NO	YES
B-68	YES	YES	NO	YES
B-72	YES	YES	NO	YES
B-73	YES	YES	NO	YES
B-74	YES	YES	NO	YES
B-76	YES	YES	NO	YES
B-78	YES	YES	NO	YES
B-79	YES	YES	NO	YES
B-80	YES	YES	NO	YES
B-81	YES	YES	NO	YES
B-84	YES	YES	NO	YES
B-85	YES	YES	NO	YES
B-86	YES	YES	NO	YES
B-87	YES	YES	NO	YES
B-89	YES	YES	NO	YES
B-90	YES	YES	YES	YES
B-91	YES	YES	YES	YES
B-94	YES	YES	NO	YES
B-95	YES	YES	YES	YES
B-96	YES	YES	YES	YES
B-99	YES	YES	NO	YES
B-103D	YES	YES	NO	YES
B-109D	YES	YES	NO	YES
B-110D	YES	YES	NO	YES
B-113D	YES	YES	NO	YES
B-115D	YES	YES	NO	YES
B-116D	YES	YES	NO	YES
B-117D	YES	YES	NO	YES
B-118	YES	YES	NO	YES
B-119D	YES	YES	NO	YES
B-123D	YES	YES	NO	YES
AP-1-B-3	YES	YES	NO	YES
AP-1-B-7	YES	YES	NO	YES
AP-1-B-8	YES	YES	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
DW-1	YES	YES	NO	YES
DW-2	YES	YES	NO	YES
DW-3	YES	YES	NO	YES
DW-4	YES	YES	NO	YES
WT-1	YES	YES	NO	YES
WT-2	YES	YES	NO	YES
WT-3	YES	YES	NO	YES
WT-4	YES	YES	NO	YES
WT-5	YES	YES	NO	YES
WT-6	YES	YES	NO	YES
WT-7	YES	YES	NO	YES
ET-1	YES	YES	NO	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
DGWA-53	YES	YES	YES	YES	YES
DGWA-70A	YES	YES	YES	YES	YES
DGWA-71	YES	YES	YES	YES	YES
DGWC-37	YES	YES	YES	YES	YES
DGWC-38	YES	YES	YES	YES	YES
DGWC-39	YES	YES	YES	YES	YES
DGWC-40	YES	YES	YES	YES	YES
DGWC-67	YES	YES	YES	YES	YES
DGWC-68A	YES	YES	YES	YES	YES
DGWC-69	YES	YES	YES	YES	YES
DGWC-121	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES
B-105D	YES	YES	YES	YES	YES
B-112D	YES	YES	YES	YES	YES
DGWC-2	YES	YES	YES	YES	YES
DGWC-4	YES	YES	YES	YES	YES
DGWC-5	YES	YES	YES	YES	YES
DGWC-8	YES	YES	YES	YES	YES
DGWC-9	YES	YES	YES	YES	YES
DGWC-10	YES	YES	YES	YES	YES
DGWC-11	YES	YES	YES	YES	YES
DGWC-12	YES	YES	YES	YES	YES
DGWC-13	YES	YES	YES	YES	YES
DGWC-14	YES	YES	YES	YES	YES
DGWC-15	YES	YES	YES	YES	YES
DGWC-17	YES	YES	YES	YES	YES
DGWC-19	YES	YES	YES	YES	YES
DGWC-20	YES	YES	YES	YES	YES
DGWC-21	YES	YES	YES	YES	YES
DGWC-22	YES	YES	YES	YES	YES
DGWC-23	YES	YES	YES	YES	YES
DGWC-42	YES	YES	YES	YES	YES
DGWC-47	YES	YES	YES	YES	YES
DGWC-48	YES	YES	YES	YES	YES
B-56	YES	YES	YES	YES	YES
B-63	YES	YES	YES	YES	YES
B-66	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
B-77	YES	YES	YES	YES	YES
B-82	YES	YES	YES	YES	YES
B-83	YES	YES	YES	YES	YES
B-88	YES	YES	YES	YES	YES
B-92	YES	YES	YES	YES	NO
B-93	YES	YES	YES	YES	YES
B-97	YES	YES	YES	YES	NO
B-98	YES	YES	YES	YES	YES
B-101D	YES	YES	YES	YES	YES
B-102D	YES	YES	YES	YES	YES
B-104D	YES	YES	YES	YES	YES
B-106D	YES	YES	YES	YES	YES
B-107D	YES	YES	YES	YES	YES
B-108D	YES	YES	YES	YES	YES
B-111D	YES	YES	YES	YES	YES
B-120D	YES	YES	YES	YES	YES
B-122D	YES	YES	YES	YES	YES
B-125D	YES	YES	YES	NO	YES
B-3	YES	YES	YES	YES	YES
B-6	YES	YES	YES	YES	YES
B-7	YES	YES	YES	YES	YES
B-16	YES	YES	YES	YES	YES
B-18	YES	YES	YES	YES	YES
B-24	YES	YES	YES	YES	YES
B-25	YES	YES	YES	YES	YES
B-26	YES	YES	YES	YES	YES
B-28	YES	YES	YES	YES	YES
B-29	YES	YES	YES	YES	YES
B-31	YES	YES	YES	YES	YES
B-41	YES	YES	YES	YES	YES
B-50	YES	YES	YES	YES	YES
B-51	YES	YES	YES	YES	YES
B-52	YES	YES	YES	YES	YES
B-54	YES	YES	YES	YES	YES
B-55	YES	YES	YES	YES	YES
B-57	YES	YES	YES	YES	YES
B-58	YES	YES	YES	YES	YES
B-59	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
B-60	YES	YES	YES	YES	YES
B-61	YES	YES	YES	YES	YES
B-64	YES	YES	YES	YES	YES
B-65	YES	YES	YES	YES	YES
B-68	YES	YES	YES	YES	YES
B-72	YES	YES	YES	YES	YES
B-73	YES	YES	YES	YES	YES
B-74	YES	YES	YES	YES	YES
B-76	YES	YES	YES	YES	YES
B-78	YES	YES	YES	YES	YES
B-79	YES	YES	YES	YES	YES
B-80	NO	YES	YES	YES	YES
B-81	YES	YES	YES	YES	YES
B-84	YES	YES	YES	YES	YES
B-85	YES	YES	YES	YES	YES
B-86	YES	YES	YES	YES	YES
B-87	YES	YES	YES	YES	YES
B-89	YES	YES	YES	YES	YES
B-90	YES	YES	YES	YES	YES
B-91	YES	YES	YES	YES	YES
B-94	YES	YES	YES	YES	YES
B-95	YES	YES	YES	YES	NO
B-96	YES	YES	YES	YES	NO
B-99	YES	YES	YES	YES	YES
B-103D	YES	YES	YES	YES	YES
B-109D	YES	YES	YES	YES	YES
B-110D	YES	YES	YES	YES	YES
B-113D	YES	YES	NA	NO	NA
B-115D	YES	YES	YES	YES	YES
B-116D	YES	YES	YES	YES	YES
B-117D	YES	YES	YES	YES	YES
B-118	YES	YES	YES	YES	YES
B-119D	YES	YES	YES	YES	YES
B-123D	YES	YES	YES	YES	YES
AP-1-B-3	YES	YES	YES	YES	YES
AP-1-B-7	YES	YES	YES	YES	YES
AP-1-B-8	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
DW-1	YES	YES	YES	YES	YES
DW-2	YES	YES	YES	YES	YES
DW-3	YES	YES	YES	YES	YES
DW-4	YES	YES	YES	YES	YES
WT-1	YES	YES	YES	YES	YES
WT-2	YES	YES	YES	YES	YES
WT-3	YES	YES	YES	YES	YES
WT-4	YES	YES	YES	YES	YES
WT-5	YES	YES	YES	YES	YES
WT-6	YES	YES	YES	YES	YES
WT-7	YES	YES	YES	YES	YES
ET-1	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
DGWA-53	YES	YES	YES	YES	YES	YES
DGWA-70A	NO	YES	YES	YES	YES	YES
DGWA-71	YES	YES	YES	YES	YES	YES
DGWC-37	NO	YES	YES	YES	YES	YES
DGWC-38	YES	YES	YES	YES	YES	YES
DGWC-39	YES	YES	YES	YES	YES	YES
DGWC-40	YES	YES	YES	YES	YES	YES
DGWC-67	YES	YES	YES	YES	YES	YES
DGWC-68A	YES	YES	YES	YES	YES	YES
DGWC-69	YES	YES	YES	YES	YES	YES
DGWC-121	YES	YES	YES	YES	YES	YES
B-62	YES	YES	YES	YES	YES	YES
B-100	YES	YES	YES	YES	YES	YES
B-105D	YES	YES	YES	YES	YES	YES
B-112D	YES	YES	YES	YES	YES	YES
DGWC-2	YES	YES	YES	YES	YES	YES
DGWC-4	YES	YES	YES	YES	YES	YES
DGWC-5	YES	YES	YES	YES	YES	YES
DGWC-8	YES	YES	YES	YES	YES	YES
DGWC-9	YES	YES	YES	YES	YES	YES
DGWC-10	YES	YES	YES	YES	YES	YES
DGWC-11	YES	YES	YES	YES	YES	YES
DGWC-12	YES	YES	YES	YES	YES	YES
DGWC-13	YES	YES	YES	YES	YES	YES
DGWC-14	YES	YES	YES	YES	YES	YES
DGWC-15	YES	YES	YES	YES	YES	YES
DGWC-17	YES	YES	YES	YES	YES	YES
DGWC-19	YES	YES	YES	YES	YES	YES
DGWC-20	YES	YES	YES	YES	YES	YES
DGWC-21	YES	YES	YES	YES	YES	YES
DGWC-22	YES	YES	YES	YES	YES	YES
DGWC-23	YES	YES	YES	YES	YES	YES
DGWC-42	YES	YES	YES	YES	YES	YES
DGWC-47	YES	YES	YES	YES	YES	YES
DGWC-48	NO	YES	YES	YES	YES	YES
B-56	YES	YES	YES	YES	YES	YES
B-63	YES	YES	YES	YES	YES	YES
B-66	YES	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
B-77	YES	YES	YES	YES	YES	YES
B-82	YES	YES	YES	YES	YES	YES
B-83	YES	YES	YES	YES	YES	YES
B-88	YES	YES	YES	YES	YES	YES
B-92	NO	YES	YES	YES	YES	YES
B-93	YES	YES	YES	YES	YES	YES
B-97	NO	YES	YES	YES	YES	YES
B-98	YES	YES	YES	YES	YES	YES
B-101D	YES	YES	YES	YES	YES	YES
B-102D	YES	YES	YES	YES	YES	YES
B-104D	YES	YES	YES	YES	YES	YES
B-106D	YES	YES	YES	YES	YES	YES
B-107D	YES	YES	YES	YES	YES	YES
B-108D	YES	YES	YES	YES	YES	YES
B-111D	YES	YES	YES	YES	YES	YES
B-120D	YES	YES	YES	YES	YES	YES
B-122D	YES	YES	YES	YES	YES	YES
B-125D	YES	YES	YES	YES	YES	YES
B-3	YES	YES	YES	YES	YES	YES
B-6	YES	YES	YES	YES	YES	YES
B-7	YES	YES	YES	YES	YES	YES
B-16	YES	YES	YES	YES	YES	YES
B-18	YES	YES	YES	YES	YES	YES
B-24	YES	YES	YES	YES	YES	YES
B-25	YES	YES	YES	YES	YES	YES
B-26	YES	YES	YES	YES	YES	YES
B-28	YES	YES	YES	YES	YES	YES
B-29	YES	YES	YES	YES	YES	YES
B-31	YES	YES	YES	YES	YES	YES
B-41	YES	YES	YES	YES	YES	YES
B-50	YES	YES	YES	YES	YES	YES
B-51	YES	YES	YES	YES	YES	YES
B-52	YES	YES	YES	YES	YES	YES
B-54	NO	YES	YES	YES	YES	YES
B-55	YES	YES	YES	YES	YES	YES
B-57	YES	YES	YES	YES	YES	YES
B-58	YES	YES	YES	YES	YES	YES
B-59	YES	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
B-60	YES	YES	YES	YES	YES	YES
B-61	YES	YES	YES	YES	YES	YES
B-64	YES	YES	YES	YES	YES	YES
B-65	YES	YES	YES	YES	YES	YES
B-68	YES	YES	YES	YES	YES	YES
B-72	YES	YES	YES	YES	YES	YES
B-73	YES	YES	YES	YES	YES	YES
B-74	YES	YES	YES	YES	YES	YES
B-76	YES	YES	YES	YES	YES	YES
B-78	YES	YES	YES	YES	YES	YES
B-79	YES	YES	YES	YES	YES	YES
B-80	YES	YES	YES	YES	YES	YES
B-81	YES	YES	YES	YES	YES	YES
B-84	YES	YES	YES	YES	YES	YES
B-85	YES	YES	YES	NO	YES	YES
B-86	YES	YES	YES	YES	YES	YES
B-87	YES	YES	YES	YES	YES	YES
B-89	YES	YES	YES	YES	YES	YES
B-90	YES	YES	YES	YES	YES	YES
B-91	YES	YES	YES	YES	YES	YES
B-94	YES	YES	YES	YES	YES	YES
B-95	YES	YES	YES	YES	YES	YES
B-96	YES	YES	YES	YES	YES	YES
B-99	YES	YES	YES	YES	YES	YES
B-103D	YES	YES	YES	YES	YES	YES
B-109D	YES	YES	YES	YES	YES	YES
B-110D	YES	YES	YES	YES	YES	YES
B-113D	YES	YES	YES	YES	YES	YES
B-115D	YES	YES	YES	YES	YES	YES
B-116D	YES	YES	YES	YES	YES	YES
B-117D	YES	YES	YES	YES	YES	YES
B-118	YES	YES	YES	YES	YES	YES
B-119D	YES	YES	YES	YES	YES	YES
B-123D	YES	YES	YES	YES	YES	YES
AP-1-B-3	YES	YES	YES	YES	YES	YES
AP-1-B-7	YES	YES	YES	YES	YES	YES
AP-1-B-8	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McDonough

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
DW-1	YES	YES	YES	YES	YES	YES
DW-2	YES	YES	YES	YES	YES	YES
DW-3	YES	YES	YES	YES	YES	YES
DW-4	YES	YES	YES	YES	YES	YES
WT-1	YES	YES	YES	YES	YES	YES
WT-2	YES	YES	YES	YES	YES	YES
WT-3	YES	YES	YES	YES	YES	YES
WT-4	YES	YES	YES	YES	YES	YES
WT-5	YES	YES	YES	YES	YES	YES
WT-6	YES	YES	YES	YES	YES	YES
WT-7	YES	YES	YES	YES	YES	YES
ET-1	YES	YES	YES	YES	YES	YES

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
DGWA-53	
DGWA-70A	Ant mound around well pad
DGWA-71	
DGWC-37	Ant mound around well pad
DGWC-38	
DGWC-39	
DGWC-40	
DGWC-67	
DGWC-68A	
DGWC-69	
DGWC-121	
B-62	
B-100	
B-105D	
B-112D	
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	Muck covering well pad
B-56	
B-63	
B-66	

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
B-77	
B-82	
B-83	
B-88	
B-92	No lock bar, needs replacement. ant mound next to well.
B-93	
B-97	No lock bar, needs replacement.
B-98	
B-101D	
B-102D	
B-104D	
B-106D	
B-107D	
B-108D	
B-111D	
B-120D	
B-122D	
B-125D	Top ~3 feet of casing loose- pea gravel needs to be added to annular space
B-3	
B-6	
B-7	
B-16	
B-18	
B-24	
B-25	
B-26	
B-28	
B-29	
B-31	
B-41	
B-50	
B-51	
B-52	
B-54	Gravel covering well pad
B-55	
B-57	
B-58	
B-59	

Site Name: Plant McDonough

Well Inspection

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
B-60	
B-61	
B-64	
B-65	
B-68	
B-72	
B-73	
B-74	
B-76	
B-78	
B-79	
B-80	Well casing lid damaged- difficult to close. Lid and hinge need replacement.
B-81	
B-84	
B-85	Well cap on ground, needs replacement
B-86	
B-87	
B-89	
B-90	
B-91	
B-94	
B-95	No lock bar, needs replacement.
B-96	Lock bar missing eye bolt, lock. Needs Replacement.
B-99	
B-103D	
B-109D	
B-110D	
B-113D	Water in flush mount annular space- bailed dry
B-115D	
B-116D	
B-117D	
B-118	
B-119D	
B-123D	
AP-1-B-3	
AP-1-B-7	
AP-1-B-8	

Well Inspection

Site Name: Plant McDonough

Date: 1/29/2024

Permit Number: _____

Field Conditions: _____

Well ID:	Corrective actions as needed, by date:
DW-1	
DW-2	
DW-3	
DW-4	
WT-1	
WT-2	
WT-3	
WT-4	
WT-5	
WT-6	
WT-7	
ET-1	

APPENDIX C

Well Maintenance and Repair Documentation

TECHNICAL MEMORANDUM

DATE July 31, 2024

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 February 8, 2024. 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, 2, 3/4 – Well Maintenance Summary

Well ID	Date Performed	Maintenance/Repair Performed
DGWA-70A	February 2024	Ant mound around well pad removed to improve access
DGWC-37	February 2024	Ant mound around well pad removed to improve access
DGWC-48	February 2024	Cleaned off pad to improve access
B-7	February 2024	Cleaned off pad to improve access
B-54	February 2024	Cleaned off pad to improve access
B-65	February 2024	Strap repaired
B-80	February 2024	Replaced lid with new hinge
B-89	February 2024	Strap repaired; smaller lock added
B-92	February 2024	Locking bar repaired; cleaned off pad
B-95	February 2024	Lock added
B-96	February 2024	Lock replaced; U-bolt in pad repaired; cleaned off pad
B-97	February 2024	Lock bar presented; no maintenance required

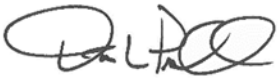
WSP USA Inc.
5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341 T: +1 770 496-1893 F: +1 770 934-9476

Well ID	Date Performed	Maintenance/Repair Performed
B-104D	February 2024	Cleaned off pad to improve access

WSP USA Inc.



Chris Tidwell
Senior Consultant, Geologist



Dawn L. Prell
Senior Consultant, Hydrogeologist

Attachments: Southern Company CFS
Plant McDonough Feb. 2024 Well O&M
(Feb. 8th)

Southern Company CFS
Plant McDonough Feb. 2024 Well O&M (Feb. 8th)

McDonough AP4:

B-80 – Hinge was bent causing lid to not close properly. Replaced lid with new hinge.





B-92 – Locking bar broken and repaired. Cleaned off pad.





Southern Company

Southern Company CFS
Plant McDonough Feb. 2024 Well O&M (Feb. 8th)

B-96 – U bolt in pad broken and repaired. Lock damaged by mower. Replaced lock. Cleaned pad.





B-95 – Lock missing. Added new lock.





Southern Company

Southern Company CFS
Plant McDonough Feb. 2024 Well O&M (Feb. 8th)

B-89 – Strap Broken and repaired. Smaller 2246 lock added.





B-65 - Strap Broken and repaired.




Southern Company

APPENDIX D

Piezometer Decommissioning and Abandonment Report (B-31 and B-74)

November 13, 2023 Project No.31406640.McD23

Ms. Lauren Hartley, Senior Geologist
Southern Company Services
241 Ralph McGill Boulevard NE
Atlanta, GA 30308
laucoker@southernco.com

SUBJECT: PIEZOMETER DECOMMISSIONING AND ABANDONMENT (B-31 AND B-74) REPORT GEORGIA POWER COMPANY - PLANT MCDONOUGH-ATKINSON, SMYRNA, GEORGIA

Dear Ms. Hartley:

WSP USA Inc. (WSP) is submitting this *Piezometer Decommissioning and Abandonment (B-31 and B-74) Report* to Southern Company Services, Inc. (SCS) and Georgia Power Company (Georgia Power), to document the decommissioning and abandonment of two piezometers at Plant McDonough-Atkinson in Smyrna, Georgia (Site). The two Site piezometers (B-31 and B-74) required abandonment to allow for a local infrastructure project (a watermain project along Maner road) in the area of Plant McDonough-Atkinson.

Piezometer abandonment activities were performed using industry-accepted practices and following the Manual for Groundwater Monitoring (1991) and Georgia Water Well Standards Act of 1985 [Official Code of Georgia Annotated (O.C.G.A.) 12-5-120, 1985] as guides. The decommissioning and abandonment of the piezometers was conducted under the oversight and direction of a Georgia Registered Professional Geologist (PG).

The field activities for the abandonment were performed on October 4, 2023. The field work consisted of the decommissioning and abandonment of two Site piezometers (B-31 and B-74). A summary of the activities is presented below. Figure 1 presents the former locations of the abandoned piezometers.

Piezometer Decommissioning and Abandonment Activities

On October 4th, Site piezometers B-31 and B-74 were abandoned by Southern Company Civil Field Services (CFS). CFS 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 piezometer decommissioning and abandonment.

Piezometer Decommissioning and Abandonment

Prior to piezometer decommissioning, WSP utilized a water level probe to confirm the total depth of the well. As piezometers B-31 and B-74 were located outside the footprint of the waste unit, decommissioning and abandonment procedures included removal of the piezometer's protective cover and concrete pad. The piezometers were then tremie-grouted from the bottom to 10' below top of casing with care taken to remove the column of water within the well. The initial grout mixture for B-74 was 17 lbs. AquaGuard bentonite powder and 4 gallons of potable water. The initial grout mixture for B-31 was 25 lbs AquaGuard bentonite powder and 7 gallons of water. The top 10 feet of the piezometers were then overdrilled, and the PVC pipe destroyed or removed. The driller then grouted the remaining borehole of each piezometer to the ground surface. The final grout mixture for B-74 was 38 lbs Quikrete non-shrink precision grout, 10 lbs AquaGuard bentonite powder, and 6.5 gallons of

water. The final grout mixture for B-31 was 38 lbs Quikrete non-shrink precision grout 10 lbs AquaGuard bentonite powder and 6.5 gallons of water.

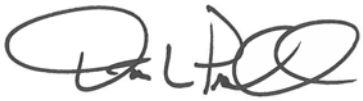
A summary of piezometer decommissioning data is presented in Table 1, and the former locations of the abandoned piezometers are provided in Figure 1. The original construction logs and the abandonment logs for B-31 and B-74 documenting pipe removal and grouting details are included in Appendix B.

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:	Location of Piezometers Abandoned
	Table 1:	Summary of Piezometer Decommissioning Data
	Appendix A:	Cascade Drilling Bond
	Appendix B:	Piezometer Construction Diagrams/Abandonment Logs

Attachments

Figures &Tables



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELLS
- PIEZOMETER
- TEMPORARY AEM WELL
- SURFACE WATER MONITORING LOCATION
- ABANDONED PIEZOMETER
- 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.

0 600 1,200

1 IN= 600 FT

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

Georgia Power

PROJECT
PIEZOMETER DECOMMISSIONING AND ABANDONMENT (B-31 AND B-74) REPORT

TITLE
LOCATION OF PIEZOMETERS ABANDONED

CONSULTANT

wsp

YYYY-MM-DD	2023-10-20
PREPARED	SEB
DESIGN	DLP
CHECKED	DP/RPK
REVIEWED/APPROVED	RNQ

PROJECT No. 166849622 | Rev. 0 | FIGURE 1

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

TABLE 1.
SUMMARY OF PIEZOMETER DECOMISSIONING DATA
Georgia Power Company - Plant McDonough-Atkinson
Atlanta, Georgia

Piezometer Identification	Date of Decommissioning	Time of Decommissioning	Total Depth (feet)	Well Diamerer (inches)	Volume of Well (cu ft)	Material Used to Decommission	Comments
B-31	10/4/2023	11:20	38.5	2	5.04	Grout Mixture	Surface features removed; Approximately 14 gallons of grout
B-74	10/4/2023	8:50	16.3	2	2.13	Grout Mixture	Surface features removed; Approximately 10 gallons of grout

Notes:
cu ft = cubic feet

Times listed for decomissioning are the starting times of decommissioning activities.

APPENDIX A

Cascade Drilling Bond

CONTINUATION CERTIFICATE

SAFECO Insurance Company of America , Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2024
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 ($15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: $100.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on 05/22/2023
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America

175 Berkeley Street, Boston, MA 02116

By
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, LLC
Agent

2211 7th Avenue South, Birmingham, AL 35233
Address of Agent

(205) 252-9871
Telephone Number of Agent

S-0157/GE 8/08

XDP

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual. SURETY

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No **8205019-016032**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II; Richard H. Mitchell; Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: _____
David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 22nd day of May, 2023

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

McGriff
SURETY DIVISION
2211 7TH AVENUE SOUTH, BIRMINGHAM, AL 35233
MEAGAN CARTER

LETTER OF TRANSMITTAL

To: Clementine Broaders
Southern Power Company

Date: 5/22/2023

We are sending you:

☐	Duplicate Original	☐	Consent of Surety	☐	Certificate of Insurance
☒	CC / VC	☐	Change Order	☐	Motor Fuel Bonds
☐	Invoice	☐	Financial/ Indemnity	☐	Bond

No. of Copies:	Description:
(1)	CC
	Bond No. 4993104
	**Please review and notify if you should have any questions, or if changes or amendments are needed. **

These are transmitted as checked below:

☐	Info and/or necessary action in remarks	☐	For your file	☒	As requested
☒	For your use	☐	Returned for corrections	☐	Please sign as indicated and return

REMARKS: UPS

If enclosures are not as noted, kindly notify at once.

Signed: Meagan Carter, *Senior Client Service Specialist – Surety*

CONTINUATION CERTIFICATE

SAFECO Insurance Company of America , Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2024
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 ($15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: $100.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on 05/31/2023
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America

175 Berkeley Street, Boston, MA 02116

By _____
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, LLC
Agent

2211 7th Avenue South, Birmingham, AL 35233
Address of Agent

(205) 252-9871
Telephone Number of Agent

S-0157/GE 8/08

XDF

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Jeffrey M Wilson** of **BIRMINGHAM**, **Alabama**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, **2021**.

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, **2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **31st** day of **May**, **2023**.

_____
Kevin E. Hughes, Assistant Secretary

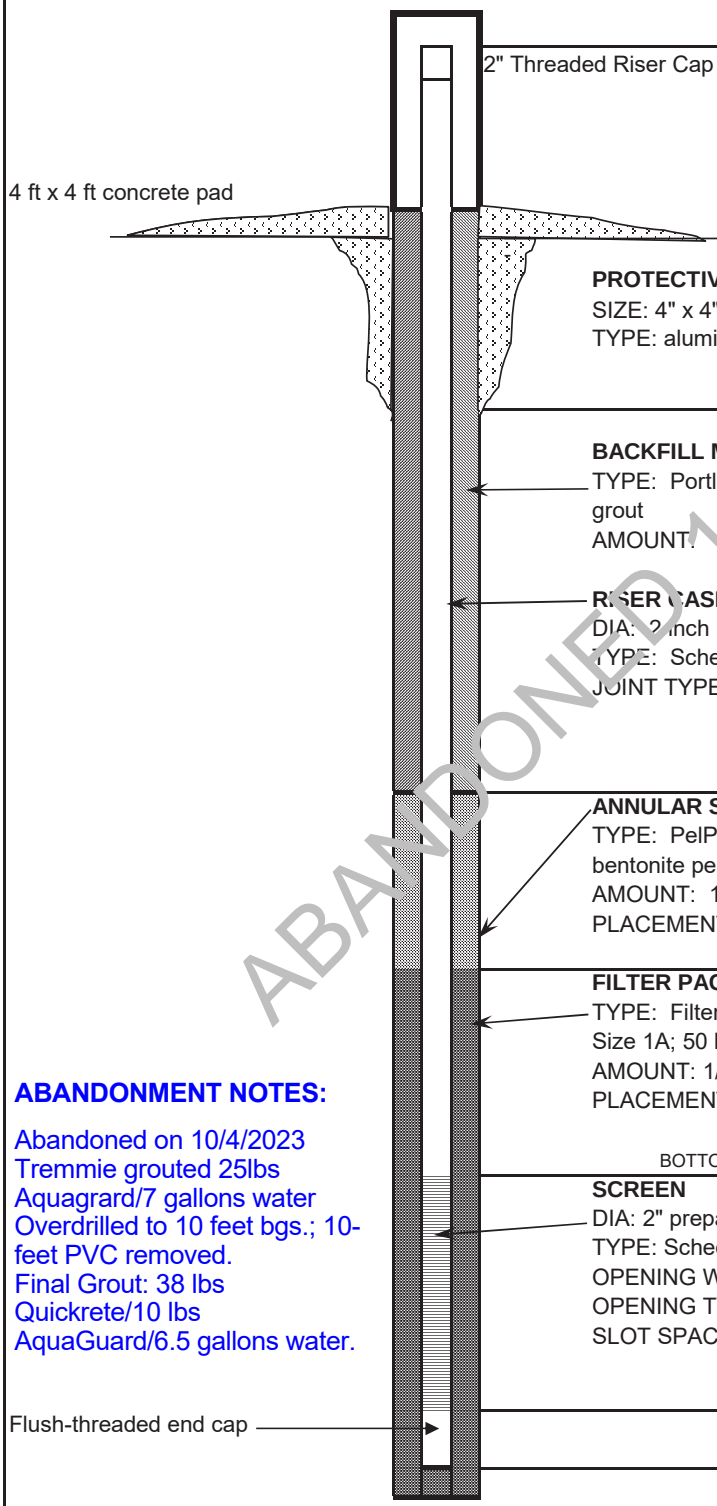
To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

APPENDIX B

Piezometer Construction Diagrams and Abandonment Logs

WELL CONSTRUCTION LOG — Southern Company Generation

PROJECT: Plant McDonough	DRILLING CO.: SCS Field Services	WELL NAME
Hydrogeologic Investigation	DRILLER: S. Denty	
LOCATION: Ash Pond 1	RIG TYPE: CME550	B-31
LOGGER: B. Gallagher	DRILLING METHODS: HS Auger/HQ Rock Core	
DATE CONSTRUCTED: 1/22/2013	N: 1392034.3 E:2200928.5	



	DEPTH FEET	ELEVATION FT, MSL
TOP OF RISER	-2.6	797.47
2" Threaded Riser Cap		
GROUND SURFACE	0.0	794.84
PROTECTIVE CASING SIZE: 4" x 4" TYPE: aluminum		
BOTTOM OF GROUT		
BACKFILL MATERIAL TYPE: Portland cement/bentonite grout AMOUNT: 5 bags cement 8 lbs bentonite		
RISER CASING DIA: 2 inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded		
TOP OF SEAL	25.7	769.1
ANNULAR SEAL TYPE: PelPlug TR-30 1/4" bentonite pellets; 5-gallon buckets AMOUNT: 1/4 bucket PLACEMENT: Poured		
TOP OF FILTER PACK	29.1	765.7
FILTER PACK TYPE: Filtersil #61 Size 1A; 50 lbs/bag AMOUNT: 1/2 Bags PLACEMENT: Tremie		
BOTTOM OF RISER / TOP OF SCREEN	34.7	760.1
SCREEN DIA: 2" prepack (3.45" OD) TYPE: Schedule 40 PVC OPENING WIDTH: 0.01 inch OPENING TYPE: Slotted SLOT SPACING: 0.1 inch		
BOTTOM OF SCREEN	44.7	750.1
BOTTOM OF CASING	45.1	749.7

ABANDONED 10/4/2023

ABANDONMENT NOTES:

Abandoned on 10/4/2023
Tremmie grouted 25lbs Aquagrard/7 gallons water
Overdrilled to 10 feet bgs.; 10-feet PVC removed.
Final Grout: 38 lbs Quickrete/10 lbs AquaGuard/6.5 gallons water.

HOLE DIA: 7 inch (auger)
3.8 inch (HQ core)

RECORD OF BOREHOLE B-74

SHEET 1 of 1

PROJECT: SCS-Plant McDonough
PROJECT NUMBER: 1779172
DRILLED DEPTH: 16.50 ft
LOCATION: ~50' West of B-68

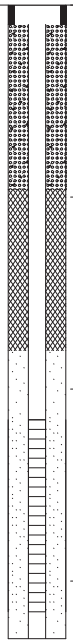
DRILL RIG: Geoprobe 7822DT
DATE STARTED: 4/24/17
DATE COMPLETED: 4/25/17

NORTHING: 1,391,279.9
EASTING: 2,200,666.1
GS ELEVATION: 759.18
TOC ELEVATION: 759.06 ft

DEPTH W.L.:3.3'
DATE W.L.:4/25/2017
TIME W.L.:09:37

DEPTH (ft)	ELEVATION (ft)	DESCRIPTION	USCS	GRAPHIC LOG	ELEV. / DEPTH (ft)	SAMPLE NO.	TYPE	BLOWS per 6 in (140 lb hammer 30 inch drop)	N-VALUE	REC
0	759	0.00 - 4.00 CL, CLAY, with some silt, low plasticity; red brown, fill; cohesive, moist, w<PL, soft.	CL		755.2					
5	755	4.00 - 13.50 SP-SM, Poorly-graded SAND with Silt and trace gravel , fine to coarse, non-plastic; white to tan, deeply weathered, granitic; non-cohesive, moist, w<PL, loose/soft.	SP-SM		4.00	S1	DO	3-18-20	38	0.75 1.50
10	750				745.7					
15	745	13.50 - 16.50 SM, Silty SAND, non-plastic; white to light gray; non-cohesive, dry to moist, w<PL, dense.	SM		13.50	S2	DO	50/3	50/3	0.25 1.50
20	740	Boring completed at 16.50 ft			742.7					
25	735									
30	730									
35	725									
40	720									

MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

WELL CASING
Interval: 0' - 16.2
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Flush/Screw

SURFACE CASING
Interval:
Material:
Diameter:

WELL SCREEN
Interval: 10.8' - 15.8'
Material: Pre-pack Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"
End Cap: 15.8' - 16.2'

FILTER PACK
Interval: 9.0' - 16.5'
Type: FilterSil gravel pack

FILTER PACK SEAL
Interval: 4.8' - 9.0'
Type: Pel-Plug 3/8" Bentonite Pellets

ANNULUS SEAL
Interval: 0' - 4.8'
Type: Pure Gold Grout Mixture

WELL COMPLETION
Pad: 4' x 4' concrete
Protective Casing: 8" Diameter Round Flush Mount

DRILLING METHODS
Soil Drill: 4.25-inch ID HSA
Rock Drill: N/A

NOTES
N/A

ABANDONED 10/4/2023

ABANDONMENT NOTES:

Abandoned on 10/4/2023
Tremmie grouted 17lbs Aquagrard/4 gallons water Overdrilled to 10 feet bgs.; 10-feet PVC removed.
Final Grout: 38 lbs Quickrete/10 lbs AquaGuard/6.5 gallons water.

LOG SCALE: 1 in = 5 ft
DRILLING COMPANY: Southern Company Services
DRILLER: S. Milam

GA INSPECTOR: Michael Boatman PG
CHECKED BY: Rachel Kirkman, PG
DATE: 5/17/17

Golder Associates

APPENDIX E

Statistical Analyses

APPENDIX E

Statistical Analyses September 2023

GROUNDWATER STATS CONSULTING

February 28, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)
September 2023 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 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-111D, B-120D, B-122D, and B-125D

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, and B-111D
- **2021** – B-120D
- **2022** – B-122D
- **2023** – B-125D

Well DGWC-9 was dry during the September 2023 event and was not sampled; therefore, this well is included on time series and box plots, but is not analyzed with prediction limits. Note that well B-109D was classified as an assessment well previously but has been redesignated as a piezometer. 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 for parametric limits. This technique

adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after 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 may 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 significant 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 2023

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2023 (Figure D). Background (upgradient) well data were reassessed 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 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, and DGWC-17
- Calcium: DGWC-4, DGWC-5, DGWC-11, DGWC-19, DGWC-21, and DGWC-23
- Chloride: DGWC-71 (upgradient) and DGWC-20
- pH: DGWC-19
- Sulfate: DGWC-19
- TDS: DGWC-4, DGWC-5, DGWC-11, DGWC-17 and DGWC-19

Decreasing trends

- Boron: DGWA-53 (upgradient), DGWC-2, DGWC-8, DGWC-10, DGWC-12, DGWC-13, DGWC-19, DGWC-20, and DGWC-48
- Calcium: DGWA-53 (upgradient) and DGWC-48
- Chloride: DGWA-53 (upgradient), DGWC-4, DGWC-19, DGWC-21, DGWC-22, DGWC-23, and DGWC-42
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-20, DGWC-42, and DGWC-47
- Sulfate: DGWA-71 (upgradient), DGWC-2, DGWC-8, DGWC-12, DGWC-13, DGWC-15, DGWC-20, DGWC-42, DGWC-47, and DGWC-48
- TDS: DGWA-53 (upgradient), DGWC-10, DGWC-12, DGWC-20, DGWC-22, and DGWC-48

Statistical Analysis of Appendix IV Parameters – September 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 additional 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 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 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were 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 sample size, 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-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-111D
- 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 at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Beryllium: DGWC-5
- Cobalt: DGWA-71 (upgradient), DGWC-9, DGWC-20, and B-56

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: DGWA-71 (upgradient), DGWC-47, DGWC-48, and B-120D

Note that while the trend test identified statistically significant increasing trend for cobalt in upgradient well DGWA-71, the slope is displayed as zero which represents the median slopes of all the possible pairwise slopes. The zero median slopes result from the large number of non-detects in the record, and the positive test statistics result from a few trace values being recorded in the earlier part of the record.

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

Sanitas™ v.10.0.15 Software licensed to . UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 1/16/2024 2:15 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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-22, DGWC-42, DGWC-9, B-125D

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, B-125D

Beryllium (mg/L)
B-108D, B-111D, B-66, DGWC-14, DGWC-2

Cadmium (mg/L)
B-104D, B-107D, B-108D, B-111D, B-122D, B-62, B-77, DGWC-14, B-125D

Chromium (mg/L)
B-102D, B-107D, B-108D, B-111D, B-120D, B-122D, B-66, B-92, B-97, DGWC-14, B-125D

Cobalt (mg/L)
DGWC-14

Lead (mg/L)
B-106D, B-122D, B-62, B-66, B-92, B-97, B-98, DGWC-22

Mercury (mg/L)
B-102D, B-106D, B-120D, B-122D, B-62, B-63, B-77, B-83, B-97, B-98, DGWC-47, B-125D

Molybdenum (mg/L)
B-106D, B-107D, B-56, B-62, B-63, B-77, 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-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9

Selenium (mg/L)
B-102D, B-106D, B-107D, B-122D, B-62, B-63, B-66, DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-125D

Thallium (mg/L)
B-100, B-101D, B-102D, B-106D, B-107D, B-108D, B-111D, B-120D, B-122D, B-62, B-63, B-77, B-93, B-97, B-98, DGWC-11, DGWC-13, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-125D

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	9/11/2023	0.28	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	9/8/2023	1.7	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/11/2023	0.46	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/8/2023	0.55	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/8/2023	1.4	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/13/2023	1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/8/2023	2.2	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/13/2023	0.38	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/11/2023	2.5	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/11/2023	7.1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/11/2023	3.9	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/11/2023	4.4	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/13/2023	5.1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/13/2023	1.1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/13/2023	0.57	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/13/2023	2.8	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/12/2023	0.75	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40.3	n/a	9/11/2023	72.7	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40.3	n/a	9/8/2023	58.6	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40.3	n/a	9/8/2023	115	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40.3	n/a	9/11/2023	114	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40.3	n/a	9/11/2023	88.4	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40.3	n/a	9/11/2023	61.2	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40.3	n/a	9/11/2023	95.4	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40.3	n/a	9/13/2023	279	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40.3	n/a	9/13/2023	55	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40.3	n/a	9/13/2023	152	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	8.2	n/a	9/11/2023	10.1	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-11	8.2	n/a	9/8/2023	11.2	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-13	8.2	n/a	9/8/2023	11.7	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-15	8.2	n/a	9/8/2023	20	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-17	8.2	n/a	9/13/2023	18.2	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-19	8.2	n/a	9/8/2023	15.8	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-20	8.2	n/a	9/11/2023	26.9	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-21	8.2	n/a	9/11/2023	17.8	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-22	8.2	n/a	9/11/2023	16.8	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-23	8.2	n/a	9/11/2023	12	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-4	8.2	n/a	9/13/2023	9.4	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-42	8.2	n/a	9/13/2023	18.4	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-5	8.2	n/a	9/13/2023	9.5	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-8	8.2	n/a	9/12/2023	9.5	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/11/2023	1.3	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	9/11/2023	1.5	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	9/12/2023	0.51	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	9/13/2023	0.51	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	9/11/2023	4.56	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	9/13/2023	5.04	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	9/8/2023	4.78	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	9/11/2023	4.06	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	9/12/2023	5.04	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	9/12/2023	3.99	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	9/13/2023	4.06	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	9/13/2023	4.74	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	9/12/2023	5.02	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-10	49	n/a	9/11/2023	258	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-11	49	n/a	9/8/2023	256	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-12	49	n/a	9/11/2023	132	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-13	49	n/a	9/8/2023	98.7	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-15	49	n/a	9/8/2023	126	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-17	49	n/a	9/13/2023	255	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-19	49	n/a	9/8/2023	369	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-2	49	n/a	9/13/2023	95.5	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-20	49	n/a	9/11/2023	552	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-21	49	n/a	9/11/2023	268	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-22	49	n/a	9/11/2023	236	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-23	49	n/a	9/11/2023	275	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-4	49	n/a	9/13/2023	852	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-42	49	n/a	9/13/2023	294	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-47	49	n/a	9/12/2023	119	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-48	49	n/a	9/13/2023	268	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-5	49	n/a	9/13/2023	576	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-8	49	n/a	9/12/2023	134	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	262.4	n/a	9/11/2023	436	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	262.4	n/a	9/8/2023	451	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	262.4	n/a	9/11/2023	302	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	262.4	n/a	9/8/2023	274	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	262.4	n/a	9/13/2023	480	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	262.4	n/a	9/8/2023	634	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	262.4	n/a	9/11/2023	960	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	262.4	n/a	9/11/2023	519	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	262.4	n/a	9/11/2023	460	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	262.4	n/a	9/11/2023	582	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	262.4	n/a	9/13/2023	1520	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	262.4	n/a	9/13/2023	545	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	262.4	n/a	9/13/2023	473	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	262.4	n/a	9/13/2023	1020	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**DGWC-10**	**0.13**	**n/a**	**9/11/2023**	**0.28**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-11**	**0.13**	**n/a**	**9/8/2023**	**1.7**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-12**	**0.13**	**n/a**	**9/11/2023**	**0.46**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-13**	**0.13**	**n/a**	**9/8/2023**	**0.55**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-14	0.13	n/a	9/8/2023	0.11	No	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-15**	**0.13**	**n/a**	**9/8/2023**	**1.4**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-17**	**0.13**	**n/a**	**9/13/2023**	**1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-19**	**0.13**	**n/a**	**9/8/2023**	**2.2**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-2**	**0.13**	**n/a**	**9/13/2023**	**0.38**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-20**	**0.13**	**n/a**	**9/11/2023**	**2.5**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-21**	**0.13**	**n/a**	**9/11/2023**	**7.1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-22**	**0.13**	**n/a**	**9/11/2023**	**3.9**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-23**	**0.13**	**n/a**	**9/11/2023**	**4.4**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-4**	**0.13**	**n/a**	**9/13/2023**	**5.1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-42**	**0.13**	**n/a**	**9/13/2023**	**1.1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-47	0.13	n/a	9/12/2023	0.1	No	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-48**	**0.13**	**n/a**	**9/13/2023**	**0.57**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-5**	**0.13**	**n/a**	**9/13/2023**	**2.8**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-8**	**0.13**	**n/a**	**9/12/2023**	**0.75**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-10**	**40.3**	**n/a**	**9/11/2023**	**72.7**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-11**	**40.3**	**n/a**	**9/8/2023**	**58.6**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-12	40.3	n/a	9/11/2023	30.8	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40.3	n/a	9/8/2023	32.7	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40.3	n/a	9/8/2023	12	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40.3	n/a	9/8/2023	34.3	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40.3	n/a	9/13/2023	19.8	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-19**	**40.3**	**n/a**	**9/8/2023**	**115**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-2	40.3	n/a	9/13/2023	33.6	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-20**	**40.3**	**n/a**	**9/11/2023**	**114**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-21**	**40.3**	**n/a**	**9/11/2023**	**88.4**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-22**	**40.3**	**n/a**	**9/11/2023**	**61.2**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-23**	**40.3**	**n/a**	**9/11/2023**	**95.4**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-4**	**40.3**	**n/a**	**9/13/2023**	**279**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-42	40.3	n/a	9/13/2023	33.6	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40.3	n/a	9/12/2023	21.9	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-48**	**40.3**	**n/a**	**9/13/2023**	**55**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-5**	**40.3**	**n/a**	**9/13/2023**	**152**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-8	40.3	n/a	9/12/2023	30	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-10**	**8.2**	**n/a**	**9/11/2023**	**10.1**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-11**	**8.2**	**n/a**	**9/8/2023**	**11.2**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-12	8.2	n/a	9/11/2023	6.5	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-13**	**8.2**	**n/a**	**9/8/2023**	**11.7**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-14	8.2	n/a	9/8/2023	3.5	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-15**	**8.2**	**n/a**	**9/8/2023**	**20**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-17**	**8.2**	**n/a**	**9/13/2023**	**18.2**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-19**	**8.2**	**n/a**	**9/8/2023**	**15.8**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-2	8.2	n/a	9/13/2023	1.9	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-20**	**8.2**	**n/a**	**9/11/2023**	**26.9**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-21**	**8.2**	**n/a**	**9/11/2023**	**17.8**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-22**	**8.2**	**n/a**	**9/11/2023**	**16.8**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-23**	**8.2**	**n/a**	**9/11/2023**	**12**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-4**	**8.2**	**n/a**	**9/13/2023**	**9.4**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-42**	**8.2**	**n/a**	**9/13/2023**	**18.4**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-47	8.2	n/a	9/12/2023	2.4	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-48	8.2	n/a	9/13/2023	6.5	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-5**	**8.2**	**n/a**	**9/13/2023**	**9.5**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-8**	**8.2**	**n/a**	**9/12/2023**	**9.5**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-10**	**0.42**	**n/a**	**9/11/2023**	**1.3**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-11	0.42	n/a	9/8/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	9/11/2023	0.13	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	9/8/2023	0.055J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	9/8/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	9/8/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	9/13/2023	0.1	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	9/8/2023	0.17	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	9/13/2023	0.083J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-20**	**0.42**	**n/a**	**9/11/2023**	**1.5**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-21	0.42	n/a	9/11/2023	0.054J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-22	0.42	n/a	9/11/2023	0.054J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	9/11/2023	0.1	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	9/13/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	9/13/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-47**	**0.42**	**n/a**	**9/12/2023**	**0.51**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-48**	**0.42**	**n/a**	**9/13/2023**	**0.51**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-5	0.42	n/a	9/13/2023	0.14	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	9/12/2023	0.091J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-10**	**6.69**	**5.43**	**9/11/2023**	**4.56**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-11	6.69	5.43	9/8/2023	5.44	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	9/11/2023	6.1	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	9/8/2023	5.59	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	9/8/2023	5.67	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	9/8/2023	5.81	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-17**	**6.69**	**5.43**	**9/13/2023**	**5.04**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.69**	**5.43**	**9/8/2023**	**4.78**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-2	6.69	5.43	9/13/2023	6.06	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-20**	**6.69**	**5.43**	**9/11/2023**	**4.06**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-21	6.69	5.43	9/11/2023	5.61	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	9/11/2023	5.57	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	9/11/2023	5.99	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	9/13/2023	5.64	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-42**	**6.69**	**5.43**	**9/12/2023**	**5.04**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.69**	**5.43**	**9/12/2023**	**3.99**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.69**	**5.43**	**9/13/2023**	**4.06**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.69**	**5.43**	**9/13/2023**	**4.74**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-8**	**6.69**	**5.43**	**9/12/2023**	**5.02**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-10**	**49**	**n/a**	**9/11/2023**	**258**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-11**	**49**	**n/a**	**9/8/2023**	**256**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-12**	**49**	**n/a**	**9/11/2023**	**132**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-13**	**49**	**n/a**	**9/8/2023**	**98.7**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	DGWC-14	49	n/a	9/8/2023	43.1	No	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**DGWC-15**	**49**	**n/a**	**9/8/2023**	**126**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-17**	**49**	**n/a**	**9/13/2023**	**255**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-19**	**49**	**n/a**	**9/8/2023**	**369**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-2**	**49**	**n/a**	**9/13/2023**	**95.5**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-20**	**49**	**n/a**	**9/11/2023**	**552**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-21**	**49**	**n/a**	**9/11/2023**	**268**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-22**	**49**	**n/a**	**9/11/2023**	**236**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-23**	**49**	**n/a**	**9/11/2023**	**275**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-4**	**49**	**n/a**	**9/13/2023**	**852**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-42**	**49**	**n/a**	**9/13/2023**	**294**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-47**	**49**	**n/a**	**9/12/2023**	**119**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-48**	**49**	**n/a**	**9/13/2023**	**268**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-5**	**49**	**n/a**	**9/13/2023**	**576**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-8**	**49**	**n/a**	**9/12/2023**	**134**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**262.4**	**n/a**	**9/11/2023**	**436**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**262.4**	**n/a**	**9/8/2023**	**451**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**262.4**	**n/a**	**9/11/2023**	**302**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	262.4	n/a	9/8/2023	217	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	262.4	n/a	9/8/2023	156	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**262.4**	**n/a**	**9/8/2023**	**274**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**262.4**	**n/a**	**9/13/2023**	**480**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**262.4**	**n/a**	**9/8/2023**	**634**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	262.4	n/a	9/13/2023	212	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**262.4**	**n/a**	**9/11/2023**	**960**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**262.4**	**n/a**	**9/11/2023**	**519**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**262.4**	**n/a**	**9/11/2023**	**460**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**262.4**	**n/a**	**9/11/2023**	**582**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**262.4**	**n/a**	**9/13/2023**	**1520**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**262.4**	**n/a**	**9/13/2023**	**545**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	262.4	n/a	9/12/2023	218	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**262.4**	**n/a**	**9/13/2023**	**473**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**262.4**	**n/a**	**9/13/2023**	**1020**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	262.4	n/a	9/12/2023	251	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:24 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.003815	-70	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-10	-0.5759	-110	-63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.09451	112	63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.276	-124	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.05186	-72	-63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.03666	81	68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.1622	-91	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.1753	-146	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.6233	-117	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.221	85	63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.05724	-114	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.3198	-121	-63	Yes	17	0	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-3.489	-105	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	3.104	76	63	Yes	17	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.413	134	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	2.023	93	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	3.033	92	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	13.75	78	63	Yes	17	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-6.589	-131	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	7.884	96	63	Yes	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.1444	-106	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0.6112	69	68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.845	-131	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	2.004	124	68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-0.9359	-119	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.053	-126	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7935	-125	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.234	-147	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.693	-125	-68	Yes	18	0	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.1218	-108	-81	Yes	20	0	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.143	-106	-81	Yes	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.03073	83	81	Yes	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.03796	-90	-74	Yes	19	0	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.03328	-82	-81	Yes	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1547	-93	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-0.7648	-99	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-39.62	-98	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-10.7	-78	-63	Yes	17	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-8.111	-113	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	18.84	104	68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-36.13	-145	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-34.76	-81	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-11.69	-86	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-36.55	-118	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-44.14	-128	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-59.54	-125	-63	Yes	17	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-19.82	-110	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-28.26	-75	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	20.89	82	63	Yes	17	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-53.95	-104	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.64	71	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	33.89	108	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-46.69	-75	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6	-70	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	66.91	92	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-52.69	-132	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	48.86	112	63	Yes	17	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:24 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**DGWA-53 (bg)**	**-0.003815**	**-70**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWA-70A (bg)	0	12	68	No	18	50	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	0.0006045	25	63	No	17	23.53	n/a	0.01	NP
Boron (mg/L)	**DGWC-10**	**-0.5759**	**-110**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-11**	**0.09451**	**112**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-12**	**-1.276**	**-124**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-13**	**-0.05186**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-15	0	-5	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-17**	**0.03666**	**81**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-19**	**-0.1622**	**-91**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-2**	**-0.1753**	**-146**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-20**	**-0.6233**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-21	0.1999	41	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.02707	12	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.05045	26	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-4**	**0.221**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-42	0	-3	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-48**	**-0.05724**	**-114**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-5	-0.2186	-39	-63	No	17	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-8**	**-0.3198**	**-121**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWA-53 (bg)**	**-3.489**	**-105**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWA-70A (bg)	0.04315	15	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.2966	-37	-63	No	17	5.882	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-2.19	-50	-63	No	17	0	n/a	0.01	NP
Calcium (mg/L)	**DGWC-11**	**3.104**	**76**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-19**	**6.413**	**134**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-20	-2.43	-9	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**DGWC-21**	**2.023**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-22	-0.1226	-6	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**DGWC-23**	**3.033**	**92**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-4**	**13.75**	**78**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-48**	**-6.589**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-5**	**7.884**	**96**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWA-53 (bg)**	**-0.1444**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWA-70A (bg)	-0.03406	-39	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**DGWA-71 (bg)**	**0.6112**	**69**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-10	-0.3698	-50	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	0.1938	27	63	No	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.371	-36	-63	No	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.2322	51	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	0.04704	10	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**DGWC-19**	**-3.845**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-20**	**2.004**	**124**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-21**	**-0.9359**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-22**	**-2.053**	**-126**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-23**	**-0.7935**	**-125**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-4**	**-3.234**	**-147**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-42**	**-2.693**	**-125**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-5	0.2165	53	63	No	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-8	-0.1733	-55	-63	No	17	0	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	-0.002688	-18	-87	No	21	9.524	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0	45	74	No	19	63.16	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	13	81	No	20	75	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	-0.02603	-18	-81	No	20	0	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.07002	52	81	No	20	5	n/a	0.01	NP
Fluoride (mg/L)	**DGWC-47**	**-0.1218**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**DGWC-48**	**-0.143**	**-106**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWA-53 (bg)	0.02783	39	87	No	21	0	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02199	-46	-81	No	20	0	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.004559	10	87	No	21	0	n/a	0.01	NP
pH, Field (SU)	DGWC-10	-0.007748	-14	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	1	87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**DGWC-19**	**0.03073**	**83**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-20**	**-0.03796**	**-90**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-42**	**-0.03328**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-47**	**-0.1547**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.03517	-68	-81	No	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.05723	76	81	No	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:24 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
pH, Field (SU)	DGWC-8	-0.007763	-16	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-0.3271	-19	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	0	-25	-68	No	18	50	n/a	0.01	NP
Sulfate (mg/L)	**DGWA-71 (bg)**	**-0.7648**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-10	-24.62	-68	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	10.22	58	63	No	17	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-12**	**-39.62**	**-98**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-13**	**-10.7**	**-78**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-15**	**-8.111**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-17	1.585	21	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-19**	**18.84**	**104**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-2**	**-36.13**	**-145**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-20**	**-34.76**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-21	-4.246	-62	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	-6.334	-36	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	2.55	37	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	23.78	61	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-42**	**-11.69**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-47**	**-36.55**	**-118**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-48**	**-44.14**	**-128**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-5	11.49	36	63	No	17	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-8**	**-59.54**	**-125**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-19.82**	**-110**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	0	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-1.946	-37	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**-28.26**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**20.89**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-53.95**	**-104**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-2.912	-28	-63	No	17	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**10.64**	**71**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**33.89**	**108**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**-46.69**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	1.49	11	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**-6**	**-70**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	9.626	54	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**66.91**	**92**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-17.14	-56	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-52.69**	**-132**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**48.86**	**112**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limit Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/21/2023, 5:13 PM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0045	n/a	n/a	n/a	56	82.14	n/a	n/a	0.05656	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	56	75	n/a	n/a	0.05656	NP Inter(NDs)
Barium (mg/L)	0.19	n/a	n/a	n/a	56	0	n/a	n/a	0.05656	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	57	54.39	n/a	n/a	0.05373	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	56	92.86	n/a	n/a	0.05656	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	55	69.09	n/a	n/a	0.05954	NP Inter(NDs)
Cobalt (mg/L)	0.0322	n/a	n/a	n/a	56	42.86	n/a	n/a	0.05656	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.866	n/a	n/a	n/a	58	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	60	48.33	n/a	n/a	0.04607	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	56	83.93	n/a	n/a	0.05656	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	56	35.71	n/a	n/a	0.05656	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	56	85.71	n/a	n/a	0.05656	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	56	64.29	n/a	n/a	0.05656	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	56	100	n/a	n/a	0.05656	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	56	94.64	n/a	n/a	0.05656	NP Inter(NDs)

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0045	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		4.87	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 1/16/2024, 2:23 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	0.02032	0.0134	0.004	Yes	7	0.01686	0.002911	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01693	0.01326	0.004	Yes	9	0.01477	0.003145	0	None	x^4	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.008735	0.006009	0.004	Yes	18	0.007372	0.002253	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01205	0.008993	0.004	Yes	19	0.01052	0.002609	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.0088	0.007242	0.004	Yes	19	0.008021	0.001331	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008753	0.006725	0.004	Yes	18	0.007739	0.001675	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	0.1915	0.1177	0.032	Yes	8	0.155	0.03742	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-56	0.05661	0.04339	0.032	Yes	8	0.05	0.006234	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.04999	0.03545	0.032	Yes	9	0.04272	0.00753	0	None	No	0.01	Param.
Cobalt (mg/L)	B-92	0.09426	0.03414	0.032	Yes	5	0.0642	0.01794	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06738	0.05571	0.032	Yes	9	0.06111	0.008253	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.086	0.032	Yes	18	0.1403	0.05094	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.0533	0.04998	0.032	Yes	19	0.05164	0.002838	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.7547	0.506	0.032	Yes	19	0.6559	0.2549	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3539	0.2388	0.032	Yes	19	0.2964	0.09827	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4783	0.3733	0.032	Yes	19	0.4258	0.08964	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	16.21	10.3	5	Yes	8	13.25	2.789	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	10.51	5.024	5	Yes	8	7.765	2.586	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.0928	0.0512	0.04	Yes	6	0.072	0.01514	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07036	0.05388	0.04	Yes	19	0.06212	0.01407	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.122	0.1033	0.04	Yes	19	0.1127	0.01596	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 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	8	0.002625	0.0007025	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-101D	0.001684	0.0004313	0.006	No	7	0.001873	0.001146	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	8	0.002825	0.000495	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00048	0.006	No	8	0.00188	0.001205	50	None	No	0.004	NP (normality)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	7	0.00264	0.0009525	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	8	0.002525	0.0009192	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	6	0.002548	0.001106	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	8	0.002763	0.0006718	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.003	0.006	No	11	0.002769	0.0007658	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	8	0.002708	0.0008273	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00043	0.006	No	10	0.002242	0.001222	70	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	8	0.002358	0.0008999	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	5	0.0026	0.0008944	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	18	0.00295	0.0002121	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	20	0.002865	0.0006037	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	19	0.002795	0.0006151	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	19	0.00274	0.0007816	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	19	0.002866	0.000585	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.0013	0.006	No	19	0.002772	0.0007019	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	19	0.002874	0.0005506	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-20	0.003	0.0018	0.006	No	19	0.002937	0.0002753	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	19	0.002879	0.0005277	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	18	0.002604	0.0009131	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	19	0.002905	0.0004129	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	19	0.002799	0.000645	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	18	0.002768	0.0007055	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	18	0.002859	0.0005987	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	7	0.004529	0.001247	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.0019	0.01	No	8	0.004112	0.001299	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	8	0.00405	0.001327	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	6	0.004433	0.001388	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-56	0.004783	0.002792	0.01	No	8	0.003787	0.0009387	12.5	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.005	0.01	No	11	0.004845	0.0005126	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	8	0.00465	0.0009899	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	10	0.00374	0.001366	50	None	No	0.011	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.004	0.01	No	10	0.0047	0.0006749	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	9	0.0046	0.0012	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-92	0.002445	0.0008887	0.01	No	5	0.003	0.001869	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-93	0.005	0.0013	0.01	No	8	0.0036	0.001565	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	5	0.00428	0.00161	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.006468	0.003499	0.01	No	18	0.004983	0.002453	5.556	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	20	0.004561	0.00135	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	19	0.004757	0.001058	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	19	0.004344	0.001561	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	19	0.003544	0.001967	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.005	0.0013	0.01	No	19	0.002692	0.001723	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	19	0.004515	0.001182	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01828	0.009528	0.01	No	19	0.01391	0.007476	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	18	0.00405	0.001833	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	19	0.004568	0.001294	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.005	0.0013	0.01	No	19	0.003053	0.0016	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	19	0.003584	0.001921	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.007316	0.002552	0.01	No	18	0.007361	0.008981	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0015	0.01	No	18	0.003981	0.001703	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-9**	**0.02771**	**0.01603**	**0.01**	**Yes**	**18**	**0.02187**	**0.009656**	**5.556**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.098	0.015	2	No	8	0.03038	0.02743	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-101D	0.07849	0.05408	2	No	7	0.06629	0.01027	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.02288	0.01912	2	No	8	0.021	0.001773	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-104D	0.02433	0.01867	2	No	8	0.0215	0.002673	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02261	0.01996	2	No	7	0.02129	0.001113	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1232	0.04279	2	No	7	0.083	0.03385	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06338	0.05034	2	No	7	0.05686	0.00549	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.043	0.027	2	No	8	0.0325	0.006256	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-120D	0.03944	0.01721	2	No	6	0.0275	0.008894	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-56	0.02952	0.02623	2	No	8	0.02788	0.001553	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02504	0.01841	2	No	11	0.02173	0.003977	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.056	0.02	2	No	8	0.02863	0.01178	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-66	0.02427	0.01598	2	No	8	0.02013	0.003907	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1222	0.09683	2	No	10	0.1095	0.0142	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02828	0.02127	2	No	9	0.02478	0.003632	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.056	0.024	2	No	9	0.03111	0.009968	0	None	No	0.002	NP (normality)
Barium (mg/L)	B-88	0.022	0.016	2	No	8	0.01863	0.002615	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-92	0.01769	0.01271	2	No	5	0.0152	0.001483	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01895	0.0148	2	No	8	0.01688	0.001959	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.021	0.02	2	No	5	0.0202	0.0004472	0	None	No	0.031	NP (normality)
Barium (mg/L)	B-98	0.092	0.035	2	No	5	0.0602	0.02537	0	None	No	0.031	NP (selected)
Barium (mg/L)	DGWC-10	0.02789	0.02185	2	No	18	0.02487	0.004989	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06356	0.05048	2	No	18	0.05702	0.0108	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.0375	0.02607	2	No	20	0.03229	0.01076	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.0318	0.02575	2	No	18	0.02817	0.00679	5.556	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-14	0.06226	0.05823	2	No	19	0.06024	0.003444	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04904	0.04251	2	No	19	0.04577	0.005575	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05232	0.03791	2	No	19	0.04512	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02237	2	No	19	0.02389	0.002596	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.023	0.0206	2	No	19	0.02184	0.001119	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-20	0.01595	0.01059	2	No	19	0.01327	0.004573	5.263	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	19	0.02555	0.00156	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03621	0.03079	2	No	19	0.0335	0.004632	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02331	0.01914	2	No	19	0.02132	0.003733	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03561	0.03257	2	No	18	0.03409	0.002514	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01933	0.01582	2	No	19	0.01765	0.003134	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.02005	0.01667	2	No	19	0.01836	0.002888	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.015	0.013	2	No	19	0.01374	0.0009657	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01826	0.01673	2	No	17	0.01749	0.001218	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03509	0.0248	2	No	18	0.02994	0.008498	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	0.0005753	0.0003347	0.004	No	8	0.000455	0.0001135	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00025	0.000047	0.004	No	7	0.00009129	0.00007062	14.29	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-102D	0.001319	0.0008688	0.004	No	8	0.001094	0.0002123	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001596	0.001204	0.004	No	8	0.0014	0.0001852	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001356	0.00007864	0.004	No	7	0.0001071	0.000024	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	7	0.0004357	0.0001701	85.71	None	No	0.008	NP (NDs)
Beryllium (mg/L)	B-120D	0.001164	0.0006956	0.004	No	6	0.00093	0.0001706	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.0013	0.0011	0.004	No	8	0.001225	0.00007071	0	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-62	0.0025	0.00009	0.004	No	12	0.0005148	0.0009275	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-63	0.00053	0.0003	0.004	No	10	0.000511	0.0003579	10	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-77	0.0005	0.000057	0.004	No	10	0.000299	0.0002136	50	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-82	0.001942	0.001346	0.004	No	9	0.001644	0.0003087	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0007	0.00028	0.004	No	9	0.0004011	0.0001236	0	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-88	0.002793	0.0007957	0.004	No	8	0.001779	0.001356	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.02032**	**0.0134**	**0.004**	**Yes**	**7**	**0.01686**	**0.002911**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01693**	**0.01326**	**0.004**	**Yes**	**9**	**0.01477**	**0.003145**	**0**	**None**	**x^4**	**0.01**	**Param.**
Beryllium (mg/L)	B-97	0.00185	0.00155	0.004	No	8	0.0017	0.0001414	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	8	0.0004375	0.000263	62.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	**DGWC-10**	**0.008735**	**0.006009**	**0.004**	**Yes**	**18**	**0.007372**	**0.002253**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.003	0.00014	0.004	No	18	0.001262	0.001427	38.89	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00028	0.00011	0.004	No	20	0.0003579	0.0006359	15	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	18	0.001538	0.001504	50	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	19	0.0005936	0.0005943	89.47	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00066	0.00051	0.004	No	19	0.0006758	0.0002959	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001963	0.001721	0.004	No	19	0.001842	0.0002063	10.53	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005571	0.002976	0.004	No	19	0.004274	0.002215	10.53	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	19	0.0003053	0.0004223	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00013	0.004	No	19	0.0003016	0.0004238	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	19	0.0005437	0.0003494	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00034	0.0002	0.004	No	18	0.0003828	0.0004137	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002654	0.002125	0.004	No	19	0.002389	0.000452	5.263	None	No	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01205**	**0.008993**	**0.004**	**Yes**	**19**	**0.01052**	**0.002609**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.0088**	**0.007242**	**0.004**	**Yes**	**19**	**0.008021**	**0.001331**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.008753**	**0.006725**	**0.004**	**Yes**	**18**	**0.007739**	**0.001675**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002579	0.001368	0.004	No	18	0.002049	0.001105	5.556	None	sqrt(x)	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.**
Cadmium (mg/L)	B-100	0.00059	0.00025	0.005	No	8	0.00036	0.000145	12.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	7	0.0004443	0.0001474	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	B-102D	0.000906	0.000724	0.005	No	8	0.000815	0.00008586	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.000251	0.0001375	0.005	No	7	0.0003243	0.0001683	42.86	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	B-120D	0.00118	0.0009462	0.005	No	6	0.001063	0.00008524	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.000335	0.000245	0.005	No	8	0.00029	0.00004243	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	8	0.0003563	0.0001593	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	B-66	0.0005	0.00018	0.005	No	8	0.00046	0.0001131	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	B-82	0.0007616	0.0004762	0.005	No	9	0.0006189	0.0001478	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003611	0.00027	0.005	No	9	0.0003156	0.0000472	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.004662	0.0006429	0.005	No	8	0.002653	0.001896	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001638	0.0006262	0.005	No	5	0.001132	0.0003019	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009262	0.0007388	0.005	No	8	0.0008325	0.00008844	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.0006336	0.0005184	0.005	No	5	0.000576	0.00003435	0	None	No	0.01	Param.
Cadmium (mg/L)	B-98	0.000376	0.0001307	0.005	No	5	0.000352	0.0001492	40	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001101	0.0007304	0.005	No	18	0.0009156	0.000306	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00015	0.005	No	18	0.0003811	0.0001732	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003232	0.0002176	0.005	No	20	0.000399	0.0001828	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	18	0.00046	0.0001182	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	19	0.0004437	0.0002118	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.0003	0.00023	0.005	No	19	0.0002874	0.00008465	10.53	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0004103	0.0003444	0.005	No	19	0.0003774	0.00005626	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	19	0.0003947	0.0002134	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002499	0.001828	0.005	No	19	0.002163	0.0005727	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006025	0.000354	0.005	No	19	0.0005784	0.0001936	15.79	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006227	0.000471	0.005	No	19	0.0005468	0.0001295	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	19	0.0002868	0.0002001	15.79	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.000853	0.0006415	0.005	No	18	0.0007472	0.0001748	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0008851	0.0004782	0.005	No	19	0.0007553	0.000504	10.53	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00201	0.001236	0.005	No	19	0.001623	0.0006609	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	19	0.003337	0.001533	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008886	0.0005114	0.005	No	18	0.0007	0.0003116	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002362	0.00169	0.005	No	18	0.002026	0.0005554	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	8	0.003939	0.001968	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	7	0.004486	0.001361	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	8	0.004512	0.001379	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	7	0.004471	0.001398	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	8	0.003549	0.002018	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.005	0.1	No	11	0.004635	0.001212	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	8	0.003992	0.001874	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.0007	0.1	No	10	0.003446	0.002043	60	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	9	0.004156	0.001676	77.78	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-83	0.004633	0.002056	0.1	No	9	0.003344	0.001334	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	8	0.003619	0.00192	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	8	0.003416	0.002191	62.5	None	No	0.004	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	5	0.00354	0.001999	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	DGWC-10	0.005	0.0008	0.1	No	18	0.002306	0.001973	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	18	0.004022	0.001883	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	20	0.004596	0.001242	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	18	0.004049	0.001831	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	19	0.004544	0.002128	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0025	0.1	No	19	0.002958	0.0007897	10.53	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0023	0.1	No	19	0.003732	0.002804	15.79	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.00064	0.1	No	19	0.003588	0.002136	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0016	0.1	No	19	0.003179	0.00219	31.58	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	19	0.003682	0.002019	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	19	0.002779	0.002176	47.37	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	18	0.00475	0.001061	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	19	0.003486	0.002065	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	19	0.004774	0.0009865	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	19	0.004532	0.001404	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	18	0.004747	0.001072	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.0013	0.1	No	18	0.003748	0.001881	66.67	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	0.07002	0.01754	0.032	No	10	0.04435	0.02859	10	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-101D	0.003522	0.002307	0.032	No	7	0.002914	0.0005113	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01471	0.01104	0.032	No	8	0.01288	0.001727	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.1915**	**0.1177**	**0.032**	**Yes**	**8**	**0.155**	**0.03742**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.005	0.00056	0.032	No	7	0.003161	0.002295	57.14	None	No	0.008	NP (NDs)
Cobalt (mg/L)	B-107D	0.001426	0.0005509	0.032	No	7	0.0009886	0.0003684	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00045	0.032	No	7	0.001609	0.001488	0	None	No	0.008	NP (selected)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.032	No	8	0.002224	0.002302	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-120D	0.017	0.0022	0.032	No	6	0.005733	0.005668	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	**B-56**	**0.05661**	**0.04339**	**0.032**	**Yes**	**8**	**0.05**	**0.006234**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.005	0.00031	0.032	No	12	0.004217	0.001828	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.04999**	**0.03545**	**0.032**	**Yes**	**9**	**0.04272**	**0.00753**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.01571	0.006605	0.032	No	9	0.01116	0.004714	11.11	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.005	0.0011	0.032	No	10	0.00334	0.001877	50	None	No	0.011	NP (normality)
Cobalt (mg/L)	B-82	0.005192	0.0018	0.032	No	10	0.003525	0.002207	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01713	0.00891	0.032	No	9	0.01302	0.004259	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.022	0.00135	0.032	No	9	0.006317	0.007864	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	**B-92**	**0.09426**	**0.03414**	**0.032**	**Yes**	**5**	**0.0642**	**0.01794**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06738**	**0.05571**	**0.032**	**Yes**	**9**	**0.06111**	**0.008253**	**0**	**None**	**x^4**	**0.01**	**Param.**
Cobalt (mg/L)	B-97	0.0033	0.0029	0.032	No	5	0.00302	0.0001643	0	None	No	0.031	NP (normality)
Cobalt (mg/L)	B-98	0.005	0.00063	0.032	No	7	0.004347	0.001641	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.086**	**0.032**	**Yes**	**18**	**0.1403**	**0.05094**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.032	No	18	0.003924	0.004428	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01387	0.004433	0.032	No	20	0.01042	0.00976	10	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.032	No	18	0.004238	0.001754	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	19	0.003363	0.005323	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02561	0.01848	0.032	No	19	0.02205	0.006093	5.263	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.0533**	**0.04998**	**0.032**	**Yes**	**19**	**0.05164**	**0.002838**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.01871	0.006293	0.032	No	19	0.01451	0.0119	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.7547**	**0.506**	**0.032**	**Yes**	**19**	**0.6559**	**0.2549**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009608	0.008469	0.032	No	19	0.008737	0.001529	10.53	None	x^5	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009524	0.007423	0.032	No	19	0.008474	0.001794	10.53	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00043	0.032	No	19	0.002892	0.002826	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.002	0.0017	0.032	No	18	0.002117	0.001065	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03424	0.01286	0.032	No	19	0.02581	0.02042	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.3539**	**0.2388**	**0.032**	**Yes**	**19**	**0.2964**	**0.09827**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4783**	**0.3733**	**0.032**	**Yes**	**19**	**0.4258**	**0.08964**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.0351	0.02	0.032	No	18	0.02668	0.01021	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.07529	0.03046	0.032	No	18	0.05288	0.03705	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.**

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-100	1.134	0.3305	5	No	8	0.7325	0.3792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.211	0.8531	5	No	7	1.532	0.5718	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.61	5	No	8	0.9435	0.4151	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**16.21**	**10.3**	**5**	**Yes**	**8**	**13.25**	**2.789**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	0.8362	0.4835	5	No	7	0.6599	0.1484	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.766	0.43	5	No	7	1.098	0.5624	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.7	0.7324	5	No	7	1.216	0.4074	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-111D**	**10.51**	**5.024**	**5**	**Yes**	**8**	**7.765**	**2.586**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-120D	3.68	1.21	5	No	6	2.162	0.8412	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-56	1.203	0.7613	5	No	8	0.982	0.2082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.992	1.426	5	No	10	1.709	0.3175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	1.919	0.811	5	No	7	1.365	0.4663	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5	No	7	0.6854	0.3655	0	None	No	0.008	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	1.854	0.7112	5	No	9	1.279	0.6205	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.9082	0.362	5	No	8	0.6351	0.2576	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	0.958	0.1907	5	No	9	0.5743	0.3973	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.34	0.751	5	No	8	1.546	0.7498	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.48	0.8997	5	No	5	1.69	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.67	0.8134	5	No	8	1.242	0.4041	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	2.123	0.7089	5	No	5	1.416	0.422	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.2	0.52	5	No	5	1.369	0.7274	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.435	1.09	5	No	19	1.262	0.2943	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.207	0.7176	5	No	19	0.9624	0.4181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.155	0.4803	5	No	19	0.8819	0.638	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.375	0.9148	5	No	19	1.145	0.3933	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.015	0.6444	5	No	19	0.8299	0.3168	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.35	0.5899	5	No	19	1.038	0.7914	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.9891	0.6087	5	No	19	0.7989	0.3249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	0.9779	0.5263	5	No	19	0.7521	0.3855	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.307	0.8037	5	No	19	1.056	0.43	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.528	0.9693	5	No	19	1.248	0.4766	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.012	0.5623	5	No	19	0.7871	0.3838	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.245	0.7119	5	No	19	0.9786	0.4556	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.416	0.8462	5	No	19	1.131	0.4867	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.634	1.185	5	No	19	1.41	0.3835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.142	0.6804	5	No	19	0.9112	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.685	1.726	5	No	19	2.206	0.8183	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.252	1.449	5	No	19	1.85	0.6857	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.675	1.002	5	No	19	1.339	0.5749	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8071	0.511	5	No	19	0.6591	0.2529	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.38	0.9599	5	No	18	1.17	0.3469	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.052	4	No	8	0.0905	0.01838	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	7	0.08071	0.02712	28.57	None	No	0.008	NP (selected)
Fluoride (mg/L)	B-102D	0.107	0.07101	4	No	8	0.089	0.01697	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.4391	0.2884	4	No	8	0.3638	0.0711	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07371	0.04715	4	No	7	0.06043	0.01118	14.29	None	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	7	0.09329	0.01776	85.71	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-108D	0.1	0.061	4	No	7	0.09443	0.01474	85.71	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-111D	0.57	0.32	4	No	8	0.4013	0.08967	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	6	0.08483	0.02355	66.67	None	No	0.0155	NP (NDs)
Fluoride (mg/L)	B-56	0.2819	0.1401	4	No	8	0.211	0.06691	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.23	0.099	4	No	10	0.1632	0.1017	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	B-63	0.45	0.12	4	No	7	0.1886	0.1187	0	None	No	0.008	NP (normality)
Fluoride (mg/L)	B-66	0.3829	0.08636	4	No	7	0.2243	0.1426	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-77	0.1	0.069	4	No	9	0.088	0.01381	44.44	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-82	0.1346	0.05246	4	No	8	0.1034	0.04301	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-83	0.1074	0.05862	4	No	9	0.08944	0.0258	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.054	4	No	8	0.09425	0.01626	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	B-92	0.316	0.156	4	No	5	0.236	0.04775	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.4032	0.2893	4	No	8	0.3463	0.0537	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	B-97	0.1437	0.06902	4	No	5	0.1016	0.02388	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	B-98	0.2125	0.06674	4	No	5	0.1396	0.04348	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.769	1.302	4	No	20	1.536	0.4118	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	19	0.08263	0.02457	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.1449	0.06163	4	No	20	0.1471	0.1312	30	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-13	0.1547	0.07987	4	No	19	0.132	0.09503	5.263	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.06	4	No	20	0.085	0.02507	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.079	4	No	20	0.1008	0.04067	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.2118	0.0951	4	No	20	0.183	0.1445	15	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.4074	0.1668	4	No	20	0.326	0.2917	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.06	4	No	20	0.1309	0.1432	35	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	1.019	0.5046	4	No	20	0.762	0.4533	5	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No	20	0.1006	0.06128	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.1021	0.054	4	No	20	0.1088	0.06196	45	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-23	0.1789	0.08621	4	No	20	0.1575	0.1414	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.096	4	No	20	0.127	0.1591	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	20	0.094	0.01957	90	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.024	0.5131	4	No	20	0.7685	0.4497	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.013	0.5653	4	No	20	0.821	0.4283	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	1	0.15	4	No	19	0.4826	0.4359	5.263	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-8	0.2558	0.0913	4	No	19	0.2474	0.2208	15.79	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	8	0.0006848	0.0004364	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	7	0.0008664	0.0003534	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	8	0.0006433	0.0004924	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	8	0.0008814	0.0003355	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	7	0.0008634	0.0003613	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-108D	0.0025	0.001	0.015	No	7	0.001214	0.0005669	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	8	0.0007636	0.0004377	75	None	No	0.004	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	6	0.000865	0.0003307	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	8	0.0006764	0.0004483	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	8	0.000765	0.0004352	75	None	No	0.004	NP (NDs)
Lead (mg/L)	B-77	0.001	0.00029	0.015	No	10	0.000842	0.0004347	60	None	No	0.011	NP (NDs)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	9	0.0007032	0.0004459	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	9	0.0006972	0.0004357	55.56	None	No	0.002	NP (NDs)
Lead (mg/L)	B-88	0.012	0.00035	0.015	No	8	0.002408	0.003911	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	8	0.00078	0.0004074	75	None	No	0.004	NP (NDs)
Lead (mg/L)	DGWC-10	0.01	0.00013	0.015	No	18	0.00671	0.004788	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00012	0.015	No	18	0.0007499	0.0004153	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	20	0.0009105	0.0002755	90	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	18	0.0009054	0.0002758	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	19	0.0008538	0.0003469	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0002	0.015	No	19	0.0007758	0.0004132	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	19	0.0006733	0.00044	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	19	0.0007678	0.0004016	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	19	0.0006176	0.000461	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.1	0.00044	0.015	No	19	0.06852	0.0476	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	19	0.0006982	0.0004113	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	19	0.0009508	0.0002143	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	18	0.0008038	0.0003786	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004115	0.0001765	0.015	No	19	0.0008105	0.001096	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	19	0.001024	0.0009939	36.84	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00093	0.015	No	19	0.001516	0.001073	15.79	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	18	0.0006877	0.0006171	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00023	0.015	No	18	0.0007101	0.000395	61.11	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	8	0.003787	0.004548	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-101D	0.01476	0.008613	0.04	No	7	0.01169	0.002587	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01432	0.01046	0.04	No	8	0.01239	0.001821	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03987	0.03638	0.04	No	8	0.03813	0.001642	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-106D	0.005696	0.004732	0.04	No	7	0.005214	0.0004059	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01637	0.01278	0.04	No	7	0.01457	0.001512	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.016	0.014	0.04	No	7	0.01471	0.0009512	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-111D	0.02727	0.01823	0.04	No	8	0.02275	0.004268	0	None	No	0.01	Param.
Lithium (mg/L)	**B-120D**	**0.0928**	**0.0512**	**0.04**	**Yes**	**6**	**0.072**	**0.01514**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-125D	0.1115	0	0.04	No	4	0.05425	0.0252	0	None	No	0.01	Param.
Lithium (mg/L)	B-56	0.005852	0.005123	0.04	No	8	0.005488	0.0003441	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0078	0.04	No	11	0.01008	0.004977	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	B-63	0.025	0.0045	0.04	No	9	0.008378	0.006279	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-66	0.03	0.00073	0.04	No	8	0.02634	0.01035	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.0011	0.04	No	10	0.01342	0.01431	40	None	No	0.011	NP (normality)
Lithium (mg/L)	B-82	0.015	0.00073	0.04	No	9	0.003159	0.004606	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-83	0.003276	0.001903	0.04	No	9	0.002589	0.0008007	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	B-88	0.01268	0.001639	0.04	No	8	0.007263	0.009062	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01705	0.009152	0.04	No	5	0.0131	0.002356	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	8	0.01188	0.000991	0	None	No	0.004	NP (normality)
Lithium (mg/L)	B-97	0.0053	0.00406	0.04	No	5	0.00468	0.0003701	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.001371	0.0008133	0.04	No	5	0.001092	0.0001663	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.0053	0.0022	0.04	No	18	0.0064	0.006885	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0027	0.0019	0.04	No	18	0.003478	0.005382	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	20	0.0213	0.01363	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	18	0.005678	0.007037	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	19	0.005868	0.005726	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0051	0.04	No	18	0.006022	0.0008708	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	19	0.02087	0.01381	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No	19	0.004274	0.005028	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.022	0.04	No	19	0.04342	0.02901	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	19	0.007984	0.006547	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0063	0.0056	0.04	No	19	0.006958	0.004388	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0044	0.0034	0.04	No	19	0.005032	0.004861	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.014	0.0036	0.04	No	19	0.01045	0.01685	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0037	0.0026	0.04	No	18	0.004339	0.005183	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.012	0.0087	0.04	No	19	0.01116	0.003923	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	**DGWC-47**	**0.07036**	**0.05388**	**0.04**	**Yes**	**19**	**0.06212**	**0.01407**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.122**	**0.1033**	**0.04**	**Yes**	**19**	**0.1127**	**0.01596**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.008	0.0046	0.04	No	18	0.007167	0.004789	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0066	0.0039	0.04	No	18	0.006094	0.004873	5.556	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	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	7	0.0002043	0.00004392	71.43	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	8	0.0001849	0.00004278	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	7	0.0001943	0.00001512	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	7	0.0001914	0.00002268	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	8	0.0001867	0.00003748	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-56	0.00034	0.00016	0.002	No	8	0.0002125	0.00005339	75	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-66	0.00029	0.0002	0.002	No	8	0.0002112	0.00003182	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	9	0.00019	0.00003	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	8	0.0001762	0.00004406	75	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-92	0.0001725	0.0001409	0.002	No	5	0.000178	0.00002168	40	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	B-93	0.0002227	0.0001063	0.002	No	8	0.0001885	0.00005161	37.5	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0021	0.00009	0.002	No	18	0.0002789	0.0004573	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.00048	0.00008	0.002	No	18	0.0001928	0.00008877	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00009	0.002	No	20	0.0001633	0.00006038	70	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	18	0.0001867	0.00003896	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	19	0.0001784	0.00005145	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	19	0.0001926	0.00003212	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	19	0.0001498	0.00006038	52.63	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	19	0.0001742	0.00005399	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	19	0.0002038	0.0001151	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	19	0.0001816	0.00004375	84.21	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	19	0.0001668	0.0000585	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	19	0.0001713	0.00005249	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00014	0.002	No	19	0.0001884	0.00005091	42.11	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	18	0.0002057	0.0001044	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	19	0.0001916	0.00003671	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	19	0.0001926	0.00003212	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002483	0.0001291	0.002	No	18	0.0001963	0.0001129	11.11	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.00009	0.002	No	18	0.0001567	0.00005886	61.11	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	8	0.0325	0.06364	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	7	0.008886	0.002948	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	8	0.008937	0.003005	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	8	0.006619	0.004668	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-108D	0.01	0.00078	0.1	No	7	0.008683	0.003485	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	8	0.007188	0.002518	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	6	0.008482	0.003719	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	8	0.007912	0.003866	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-82	0.01	0.00081	0.1	No	9	0.008979	0.003063	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	8	0.0078	0.004074	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-98	0.01	0.00075	0.1	No	5	0.002898	0.003984	20	None	No	0.031	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02133	0.0112	0.1	No	18	0.01717	0.009402	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	19	0.004474	0.003876	31.58	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-22	0.01	0.00097	0.1	No	19	0.009525	0.002072	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DGWC-23	0.01051	0.007122	0.1	No	19	0.008816	0.002892	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006107	0.004359	0.1	No	18	0.005233	0.001445	5.556	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	8	0.004612	0.001096	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	7	0.004729	0.0007181	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	8	0.003512	0.001659	50	None	No	0.004	NP (normality)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	7	0.004514	0.001285	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	8	0.00465	0.0009899	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-120D	0.00547	0.001163	0.05	No	6	0.003317	0.001568	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.029	0.0066	0.05	No	8	0.01241	0.006956	0	None	No	0.004	NP (normality)
Selenium (mg/L)	B-77	0.005	0.005	0.05	No	10	0.00467	0.001044	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	9	0.003333	0.001599	44.44	None	No	0.002	NP (normality)
Selenium (mg/L)	B-83	0.02598	0.01474	0.05	No	9	0.02036	0.005821	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003118	0.001882	0.05	No	8	0.0025	0.0005831	12.5	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01261	0.001827	0.05	No	5	0.00722	0.003218	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.02241	0.005907	0.05	No	8	0.01386	0.009758	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-97	0.004145	0.001375	0.05	No	5	0.00276	0.0008264	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	5	0.00466	0.0007603	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	DGWC-10	0.04655	0.0216	0.05	No	18	0.03407	0.02062	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	20	0.004145	0.002061	65	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.00421	0.002216	0.05	No	18	0.004822	0.002889	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	19	0.003837	0.002253	57.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	19	0.005095	0.001396	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008513	0.006353	0.05	No	19	0.007595	0.002204	10.53	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.007927	0.005158	0.05	No	19	0.006542	0.002364	10.53	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0037	0.05	No	19	0.004695	0.001819	42.11	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.0734	0.03809	0.05	No	19	0.05575	0.03015	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	19	0.004826	0.0007571	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	18	0.0048	0.0008485	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.009789	0.003722	0.05	No	19	0.007389	0.005849	10.53	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.00607	0.002576	0.05	No	19	0.005484	0.00304	26.32	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03402	0.007935	0.05	No	18	0.02699	0.03855	5.556	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	18	0.004678	0.001883	61.11	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-104D	0.001	0.00028	0.002	No	8	0.00091	0.0002546	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-56	0.0002928	0.0001922	0.002	No	8	0.0002425	0.00004743	0	None	No	0.01	Param.
Thallium (mg/L)	B-66	0.001	0.00021	0.002	No	8	0.0009013	0.0002793	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	9	0.000801	0.0003949	77.78	None	No	0.002	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	9	0.0008969	0.0003093	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	8	0.0009	0.0002828	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	5	0.000682	0.0004355	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No	18	0.002567	0.004091	27.78	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000091	0.002	No	20	0.0006439	0.0004483	60	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-14	0.001	0.00056	0.002	No	19	0.0009768	0.0001009	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	19	0.0005247	0.0004167	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0005534	0.0004903	0.002	No	19	0.00052	0.00005588	5.263	None	x^2	0.01	Param.
Thallium (mg/L)	DGWC-20	0.1	0.0006	0.002	No	19	0.02705	0.04479	31.58	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	19	0.0007544	0.0004222	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	18	0.0009485	0.0002185	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	19	0.0007694	0.0003986	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	19	0.0002721	0.00009437	10.53	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	19	0.0007582	0.0004157	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	18	0.0008522	0.000341	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	18	0.0004794	0.0003817	33.33	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 1/16/2024, 2:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0004561**	**-84**	**-58**	**Yes**	**19**	**42.11**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-47**	**-0.0008064**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0003897**	**-108**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-5**	**0.0003568**	**54**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-56**	**0.004968**	**21**	**17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003507**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**55**	**53**	**Yes**	**18**	**72.22**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01964**	**-91**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-20**	**0.06798**	**80**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.0361**	**-121**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03946**	**-150**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.0136**	**-115**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4485**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**B-120D**	**-0.01173**	**-13**	**-12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWA-71 (bg)**	**-0.0000751**	**-58**	**-53**	**Yes**	**18**	**16.67**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005638**	**-117**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005967**	**-120**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	19	57.89	n/a	0.05	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-25	-58	No	19	84.21	n/a	0.05	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	26	53	No	18	83.33	n/a	0.05	NP
Arsenic (mg/L)	DGWC-9	-0.0006814	-17	-53	No	18	5.556	n/a	0.05	NP
Beryllium (mg/L)	B-92	-0.001601	-10	-15	No	7	0	n/a	0.05	NP
Beryllium (mg/L)	B-93	0.0004174	8	20	No	9	0	n/a	0.05	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-16	-58	No	19	94.74	n/a	0.05	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0004561**	**-84**	**-58**	**Yes**	**19**	**42.11**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.000009929	-48	-58	No	19	26.32	n/a	0.05	NP
Beryllium (mg/L)	DGWC-10	0.0002702	18	53	No	18	0	n/a	0.05	NP
Beryllium (mg/L)	**DGWC-47**	**-0.0008064**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0003897**	**-108**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-5**	**0.0003568**	**54**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWC-9	-0.00002099	-6	-53	No	18	0	n/a	0.05	NP
Cobalt (mg/L)	B-104D	0	-1	-17	No	8	0	n/a	0.05	NP
Cobalt (mg/L)	**B-56**	**0.004968**	**21**	**17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	B-63	-0.001742	-5	-20	No	9	0	n/a	0.05	NP
Cobalt (mg/L)	B-93	-0.003036	-15	-20	No	9	0	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003507**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	45	58	No	19	57.89	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**55**	**53**	**Yes**	**18**	**72.22**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01964**	**-91**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWC-19	0	-6	-58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	**DGWC-20**	**0.06798**	**80**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.0361**	**-121**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03946**	**-150**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.0136**	**-115**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	B-104D	-1.115	-10	-17	No	8	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4485**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.002769	0	62	No	20	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.004534	-4	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	**B-120D**	**-0.01173**	**-13**	**-12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	DGWA-53 (bg)	-0.0001165	-31	-58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	DGWA-70A (bg)	0	27	58	No	19	84.21	n/a	0.05	NP
Lithium (mg/L)	**DGWA-71 (bg)**	**-0.0000751**	**-58**	**-53**	**Yes**	**18**	**16.67**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005638**	**-117**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005967**	**-120**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**

Table of Contents

Figure A. Time Series	34
Figure B. Box Plots	350
Figure C. Outlier Summary	372
Figure D. Appendix III Interwell Prediction Limits	374
Figure E. Appendix III Trend Tests	423
Figure F. Upper Tolerance Limits	454
Figure G. Groundwater Protection Standards	456
Figure H. Confidence Intervals	458
Figure I. Appendix IV Trend Tests	621

FIGURE A.

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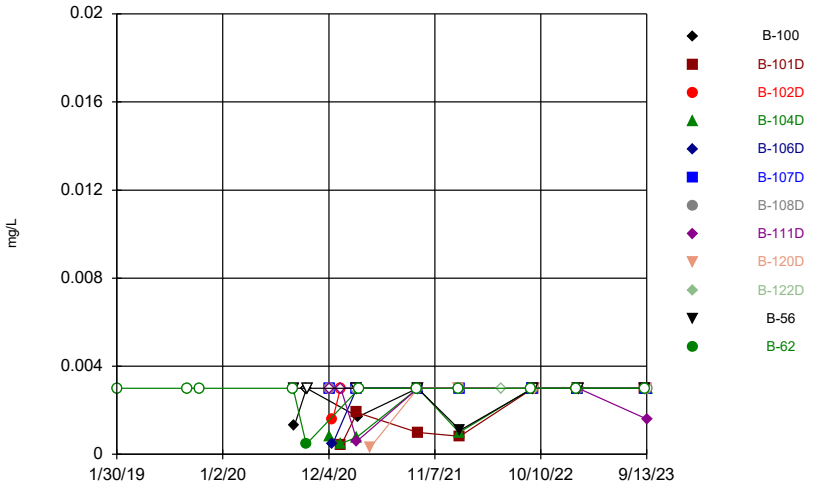
Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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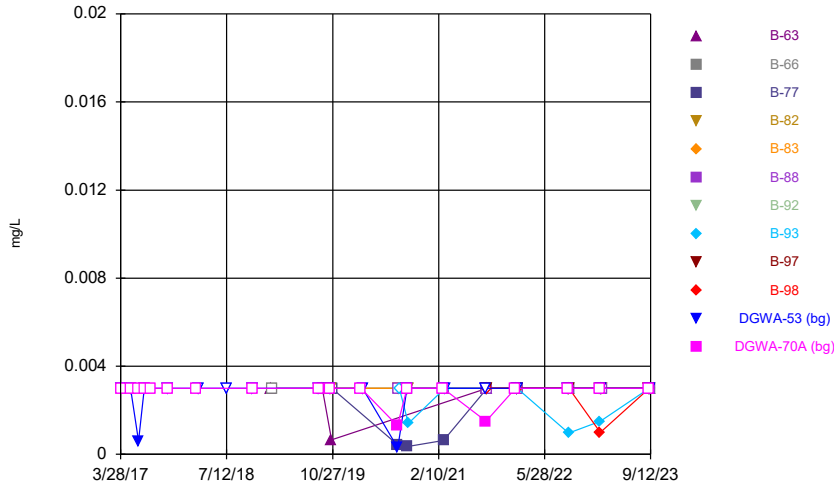
Time Series



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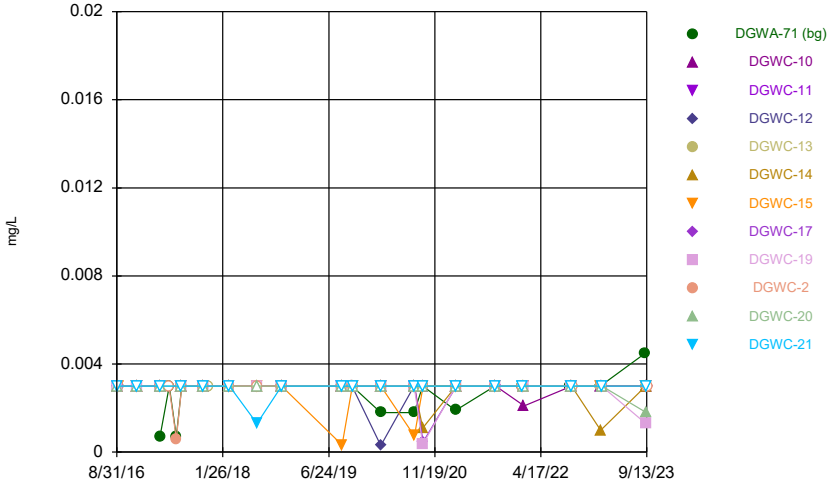

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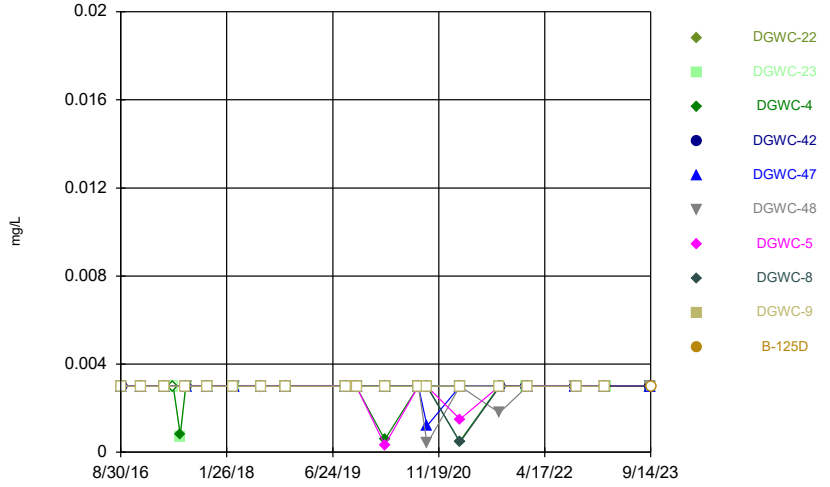

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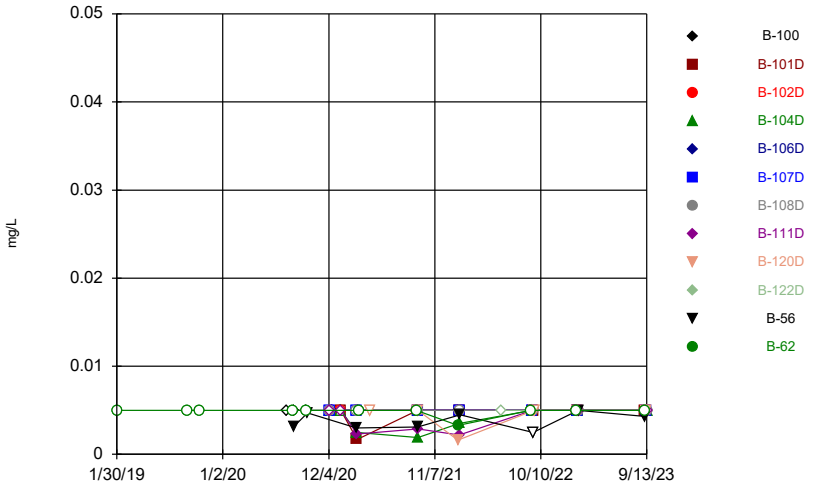

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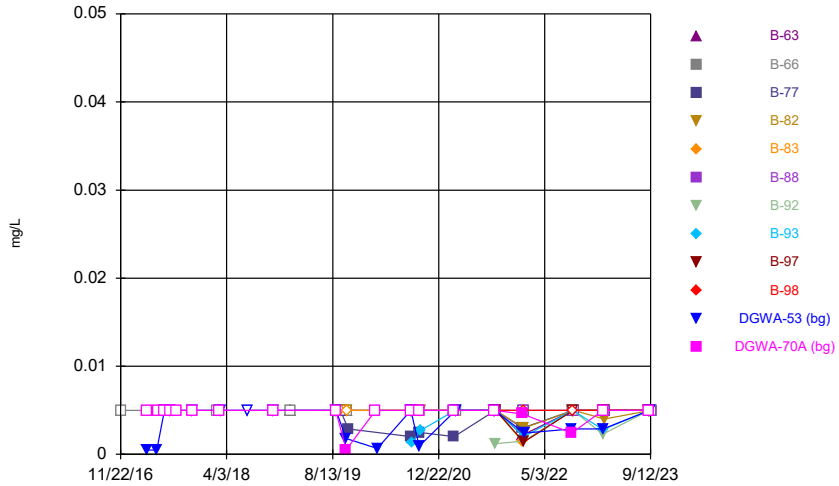
Time Series



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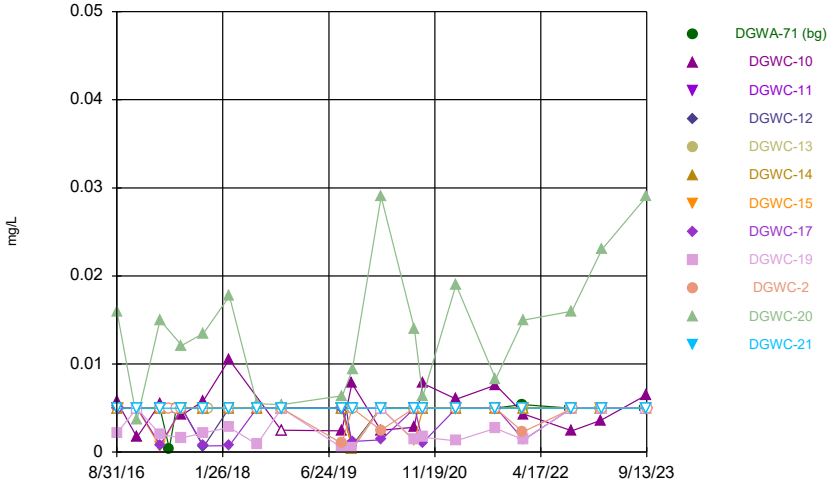
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 1/16/2024 1:58 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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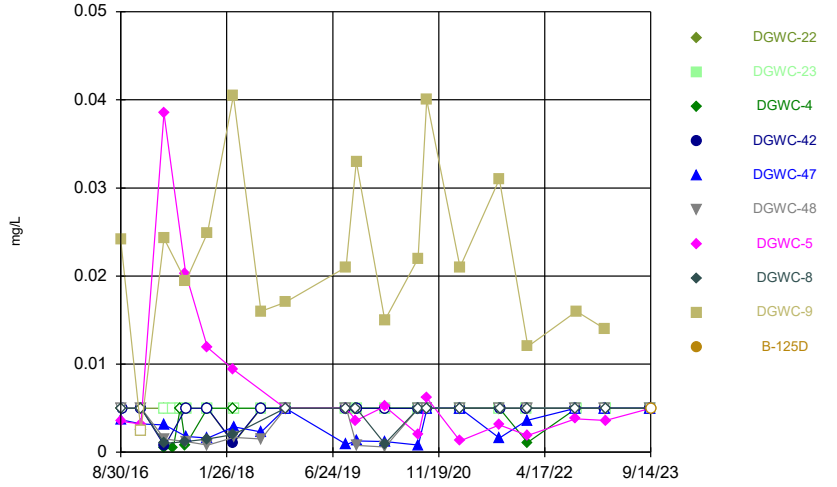
Hollow symbols indicate censored values.

Time Series



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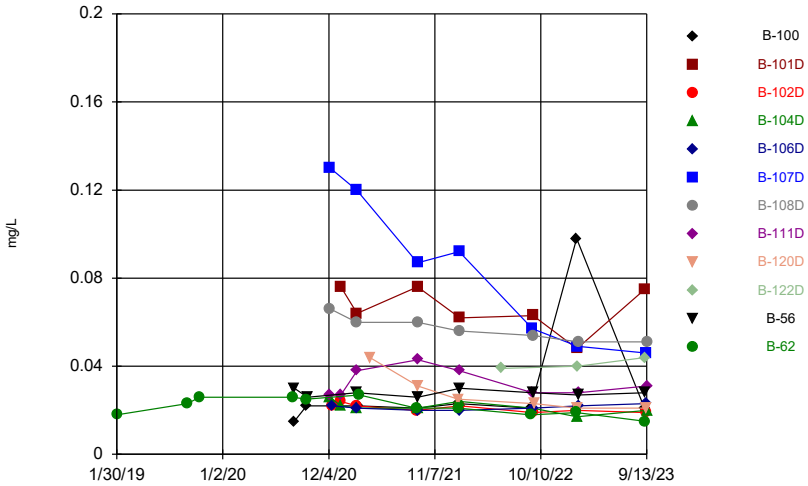
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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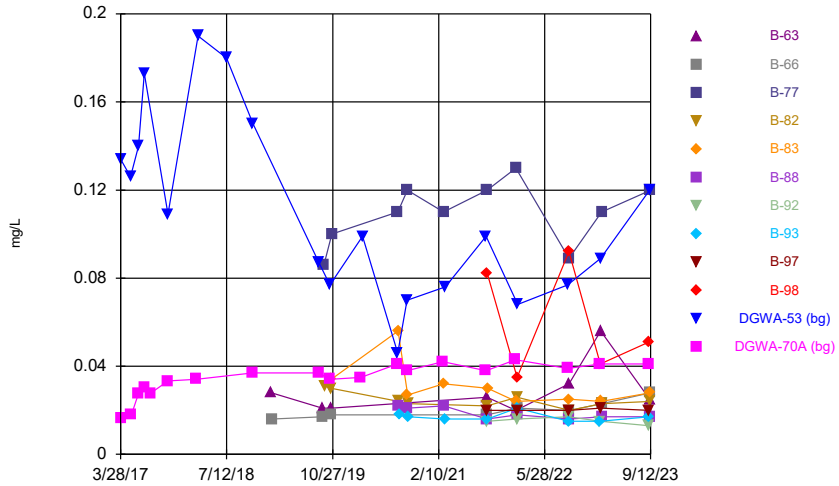
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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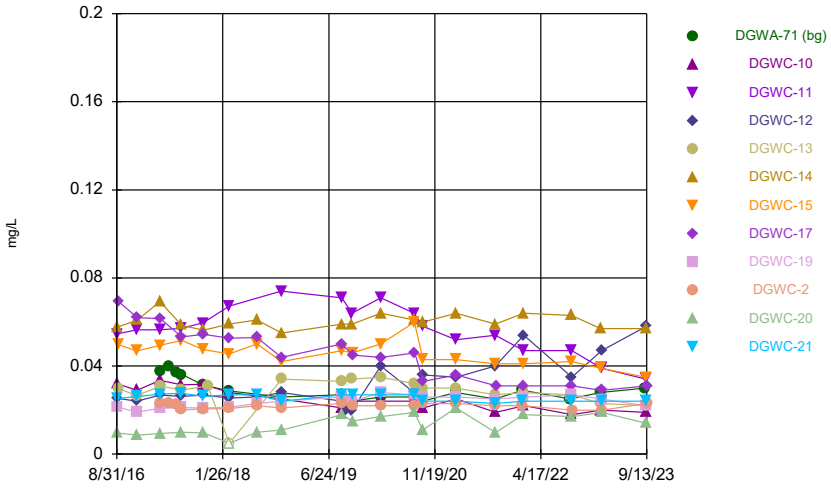
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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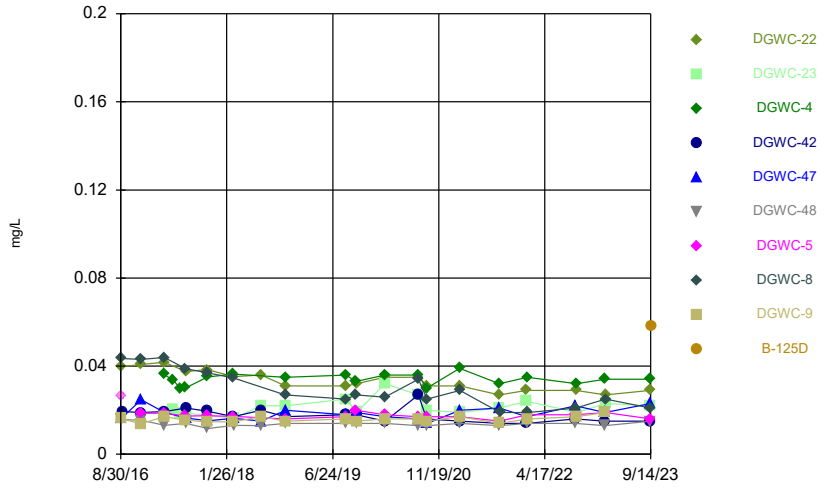
Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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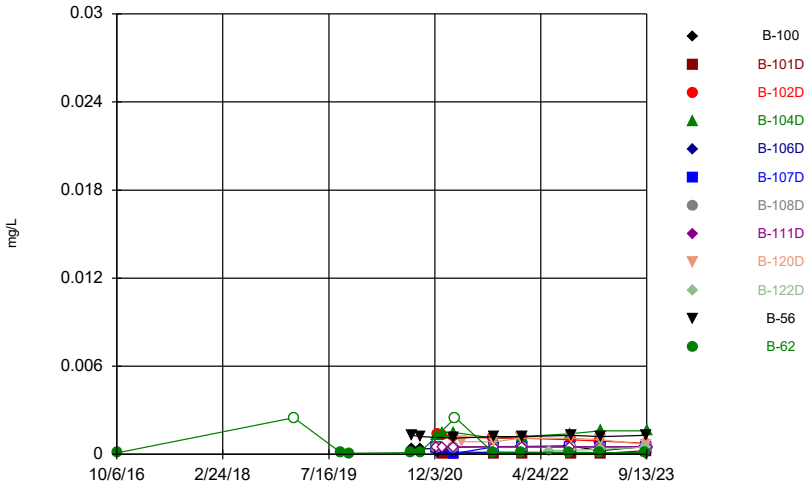
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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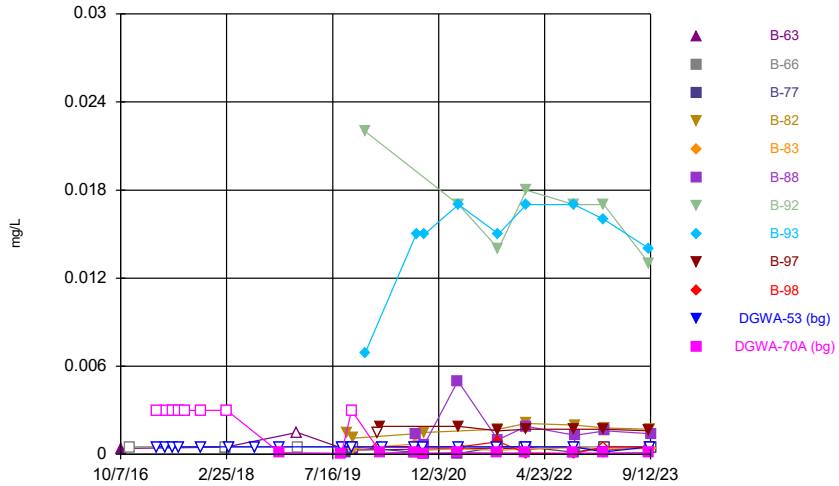
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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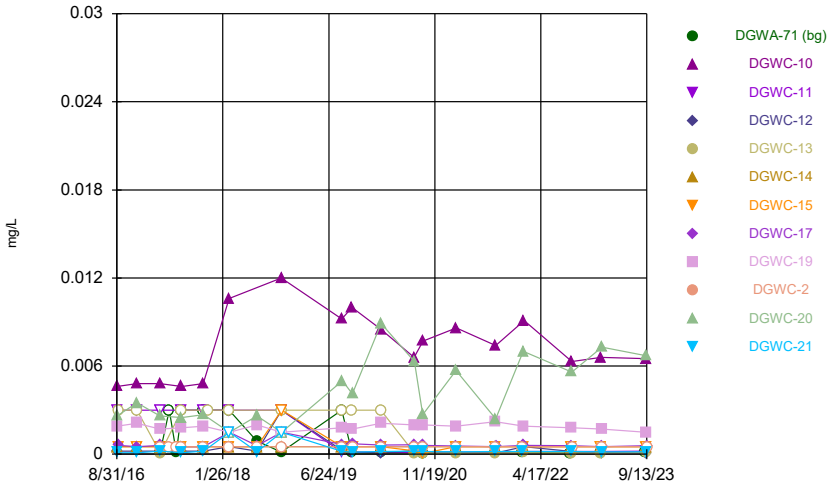
Hollow symbols indicate censored values.

Time Series



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Sanitas™ v.10.0.15 Software licensed to . UG
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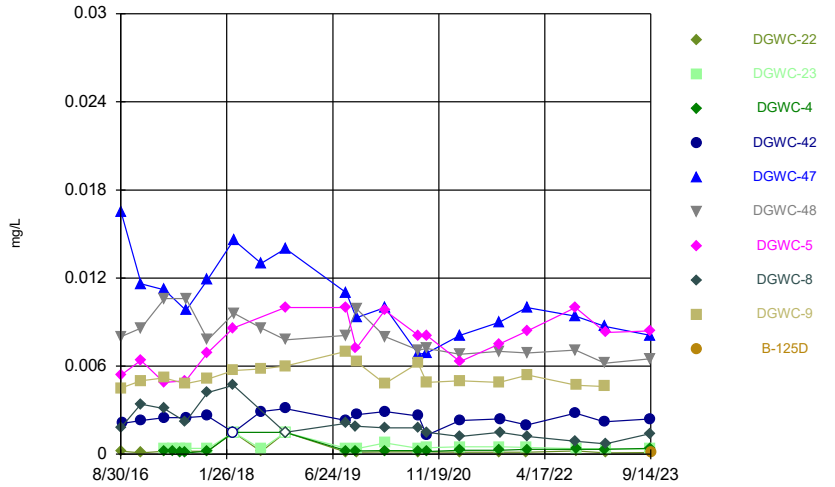

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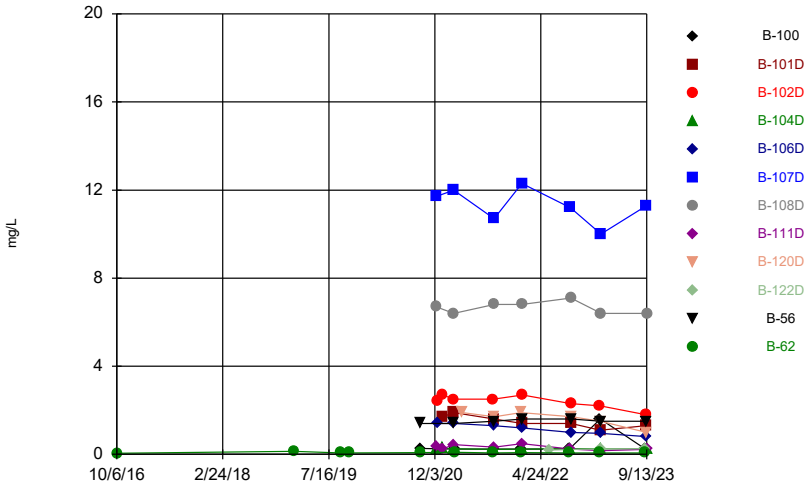
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



Constituent: Boron Analysis Run 1/16/2024 1:58 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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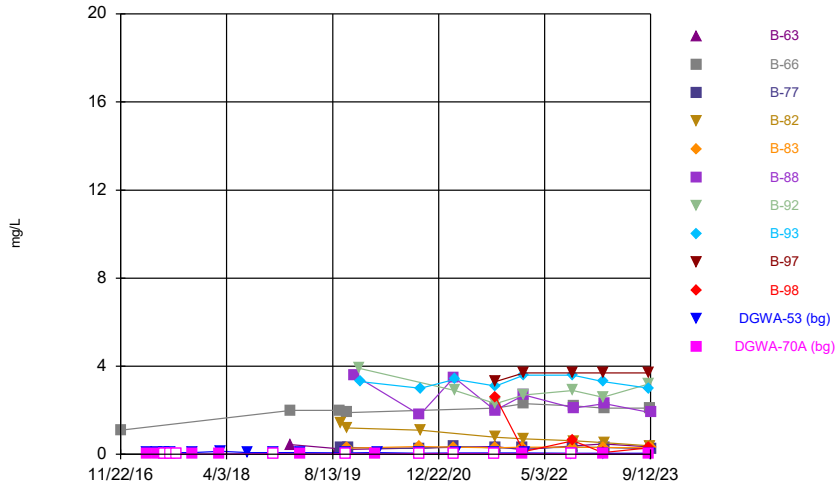
Time Series



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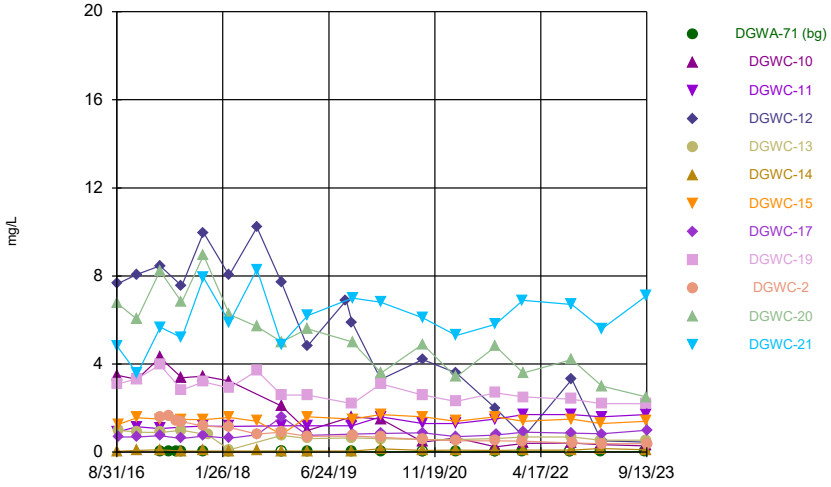
Time Series



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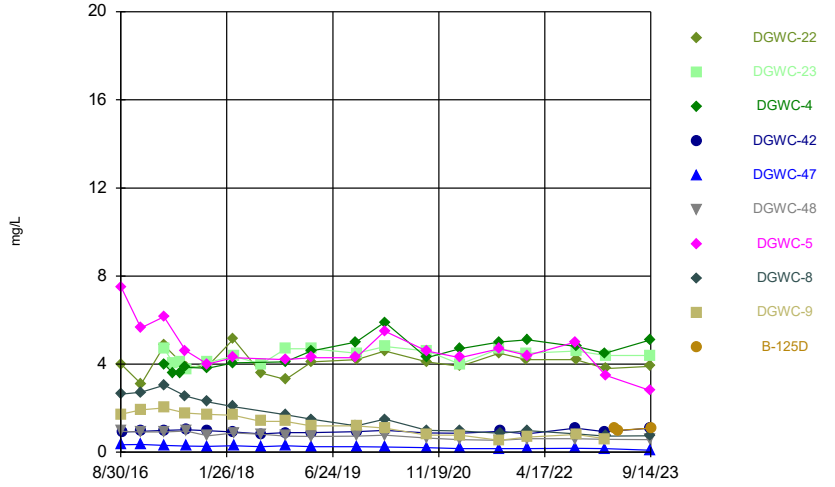
Time Series



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Sanitas™ v.10.0.15 Software licensed to . UG
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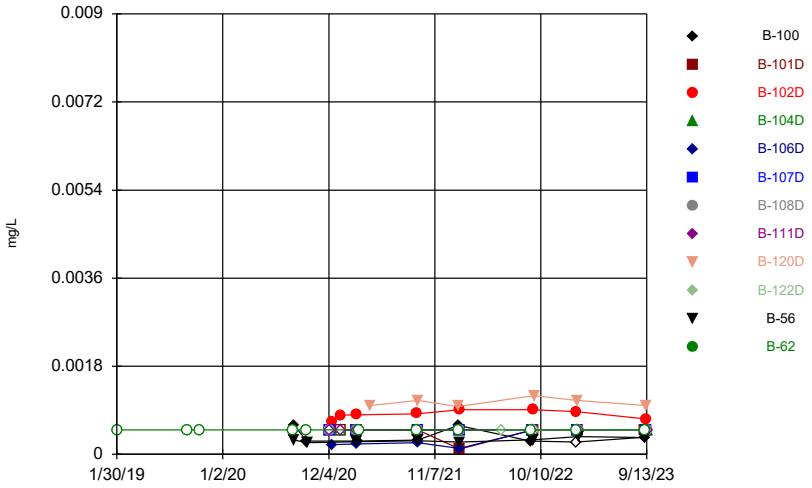
Time Series



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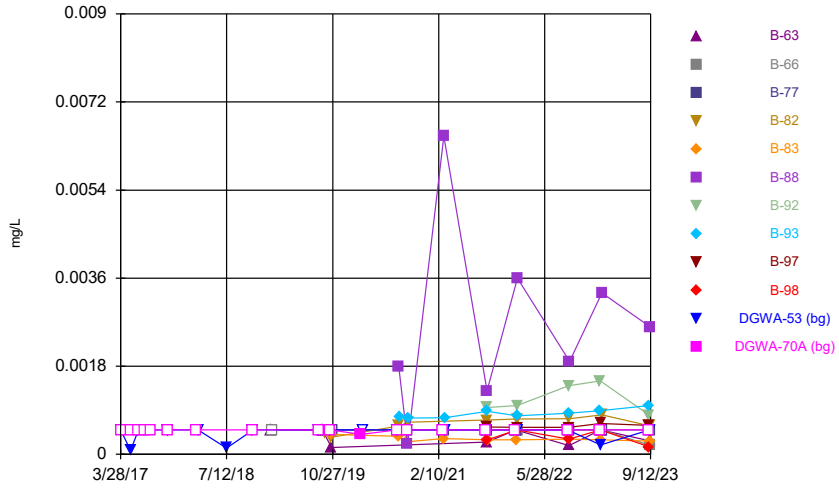
Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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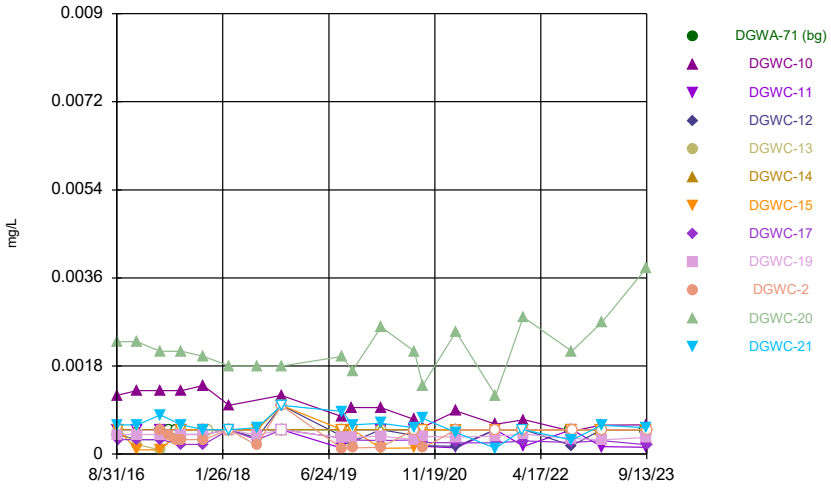

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Sanitas™ v.10.0.15 Software licensed to . UG
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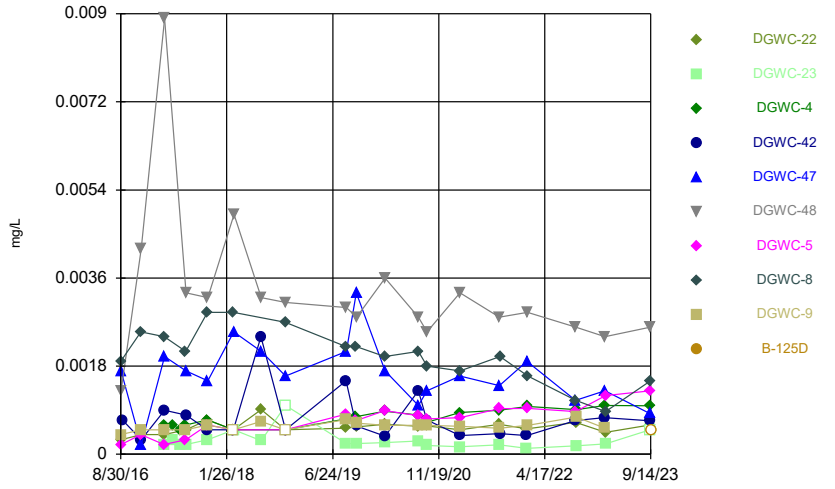
Time Series



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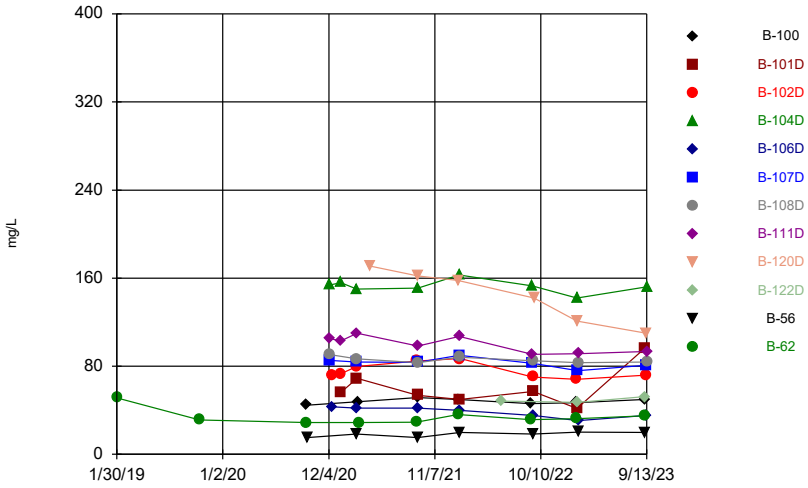
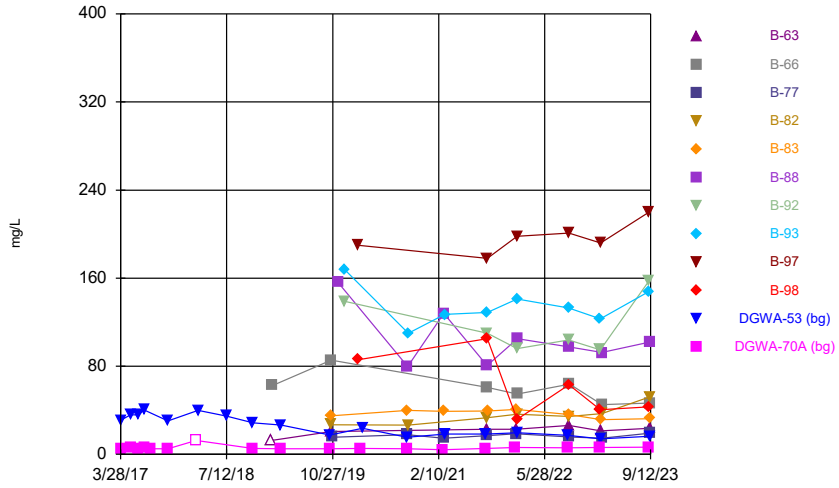
Time Series



Constituent: Calcium Analysis Run 1/16/2024 1:58 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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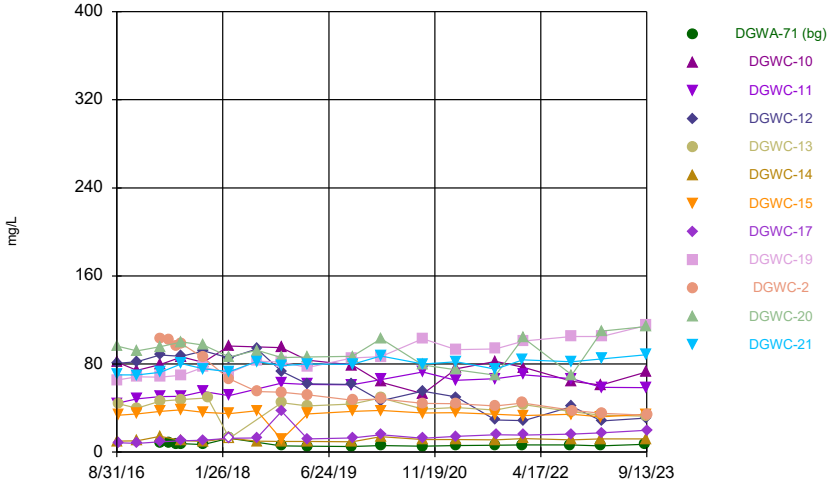
Time Series



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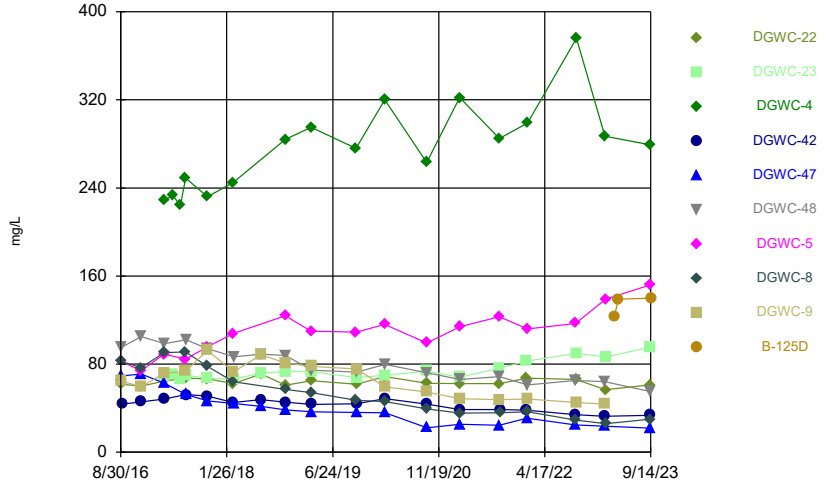
Time Series



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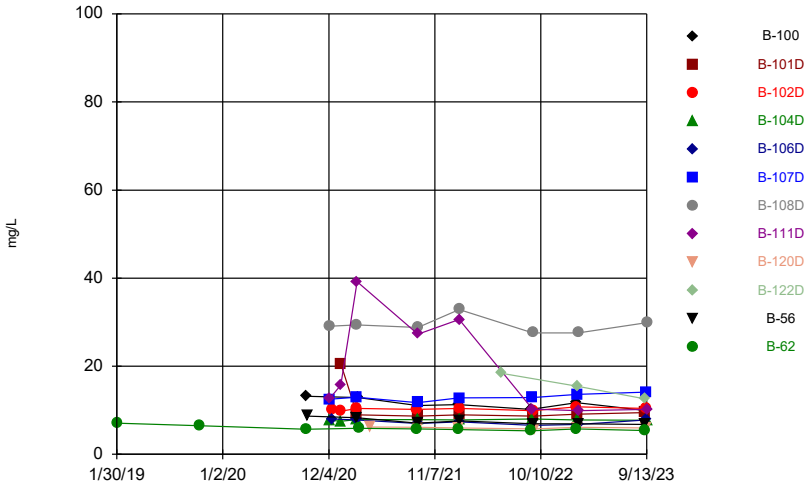
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

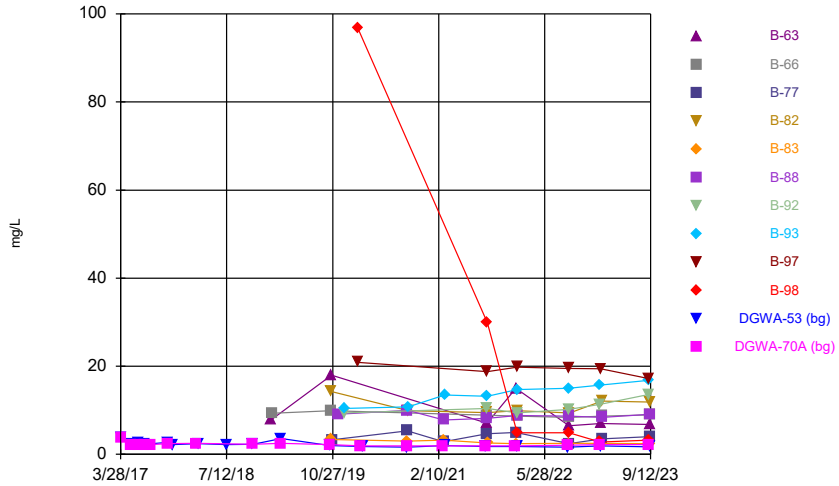
Time Series



Constituent: Chloride Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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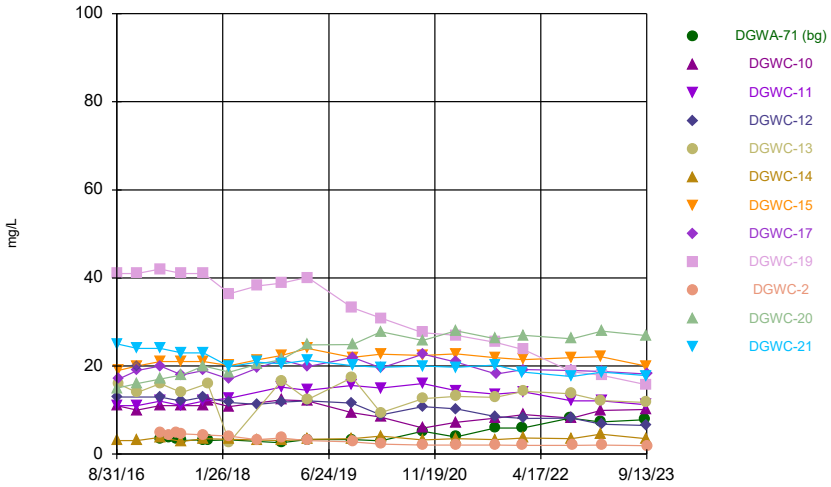
Time Series



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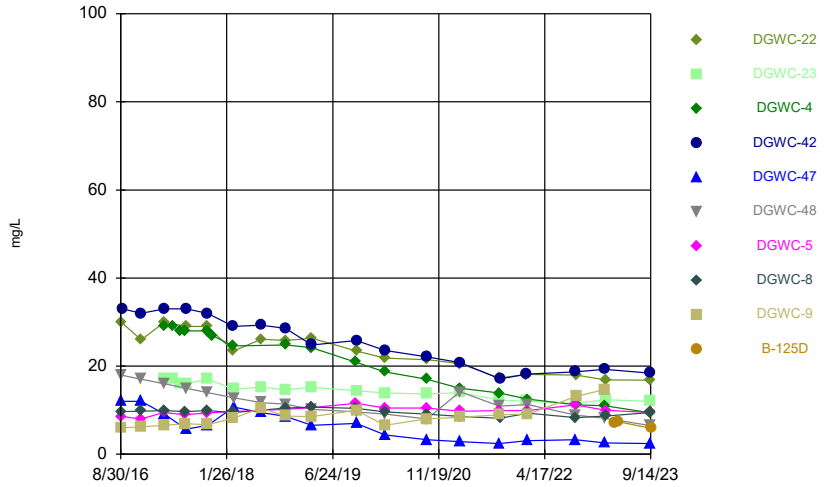
Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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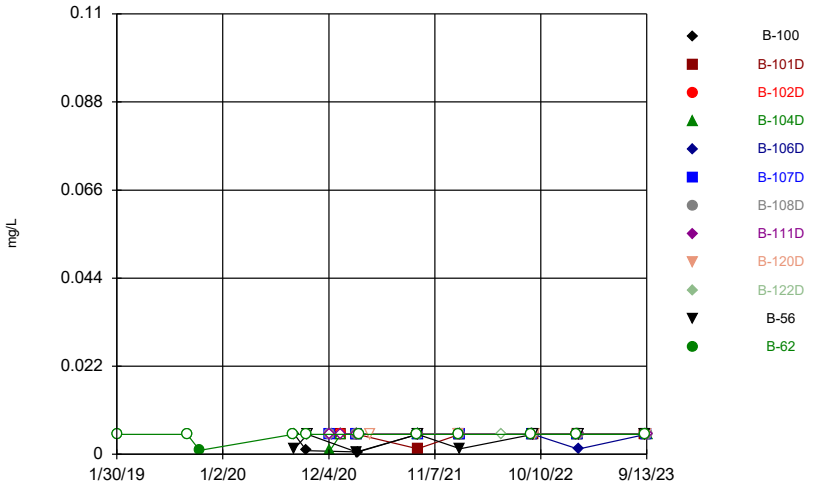
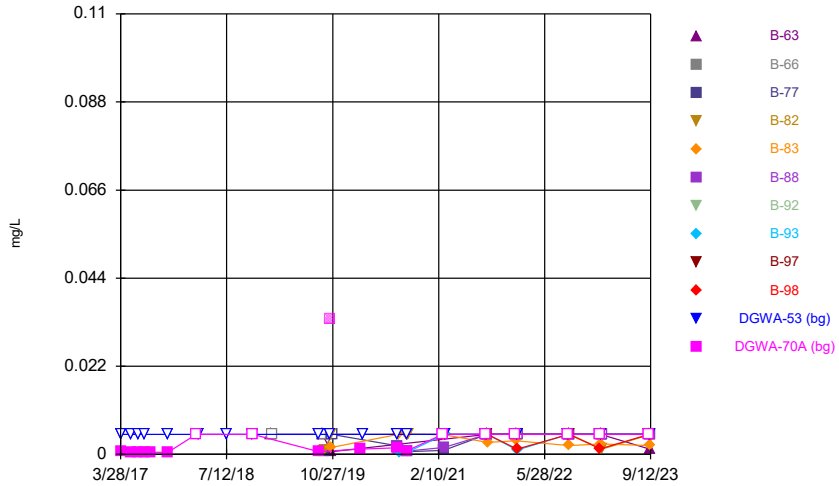


Constituent: Chromium Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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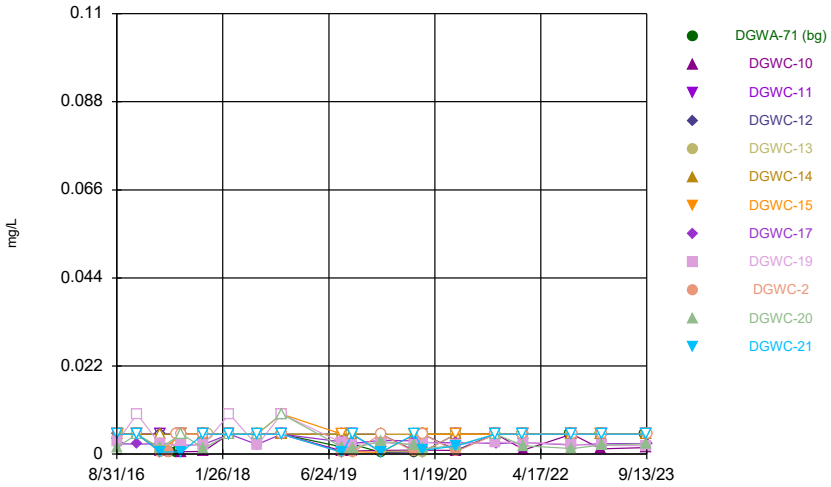
Hollow symbols indicate censored values.

Time Series



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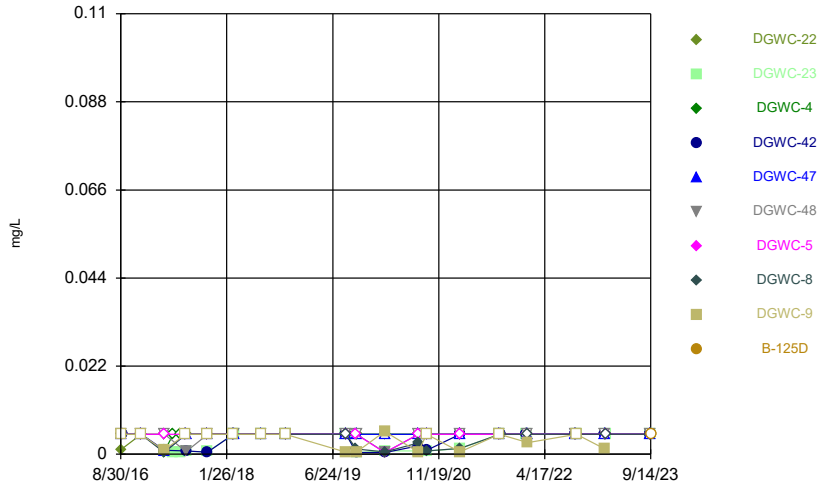
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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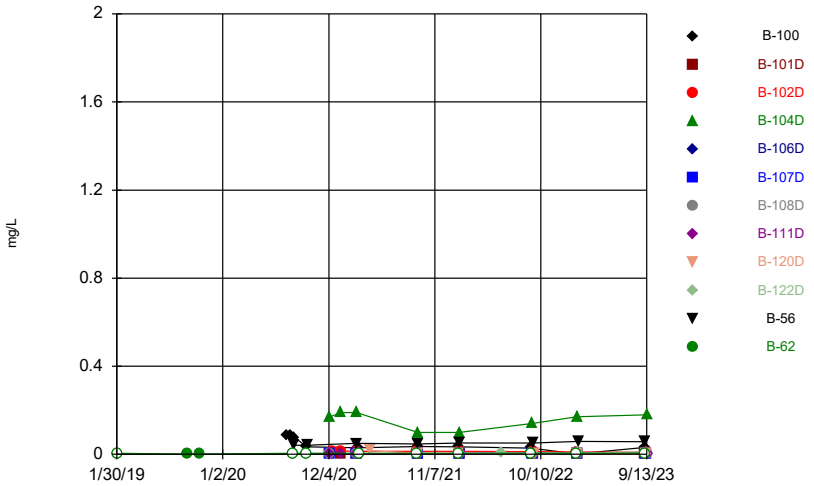
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

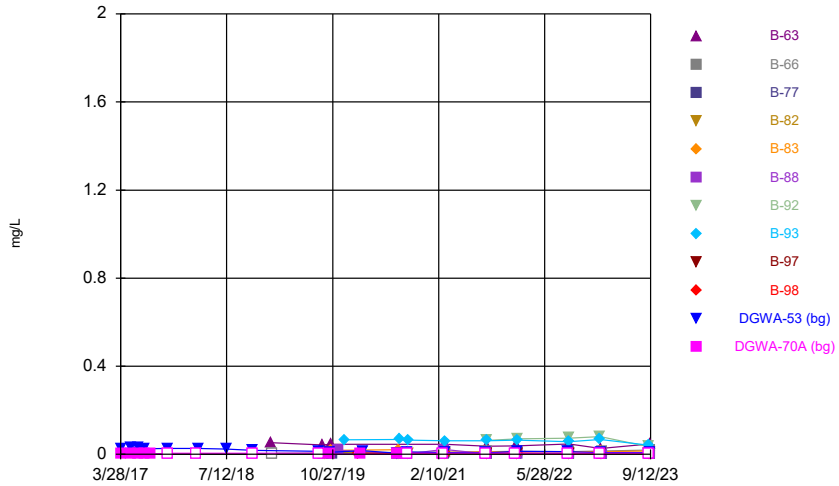
Time Series



Constituent: Cobalt Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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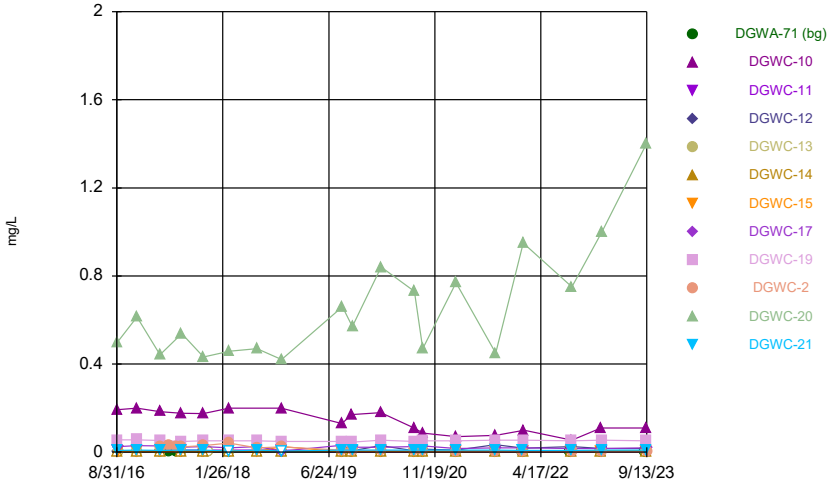
Time Series



Constituent: Cobalt Analysis Run 1/16/2024 1:59 PM View: AP 234
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Sanitas™ v.10.0.15 Software licensed to . UG
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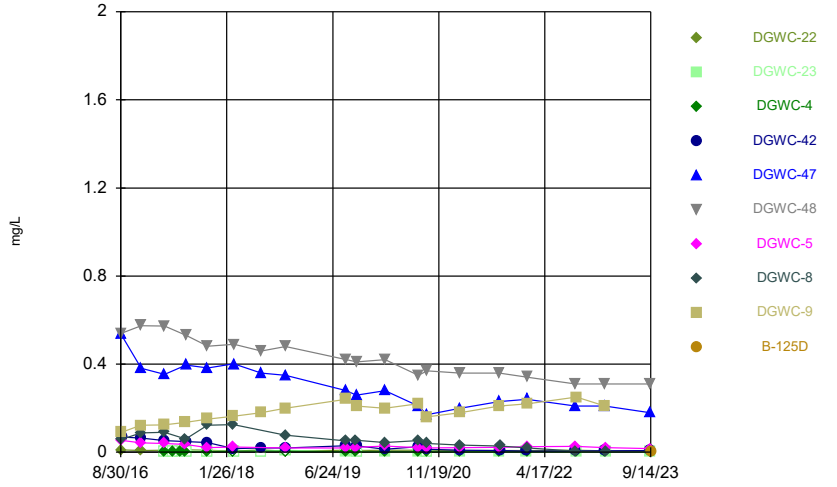
Time Series



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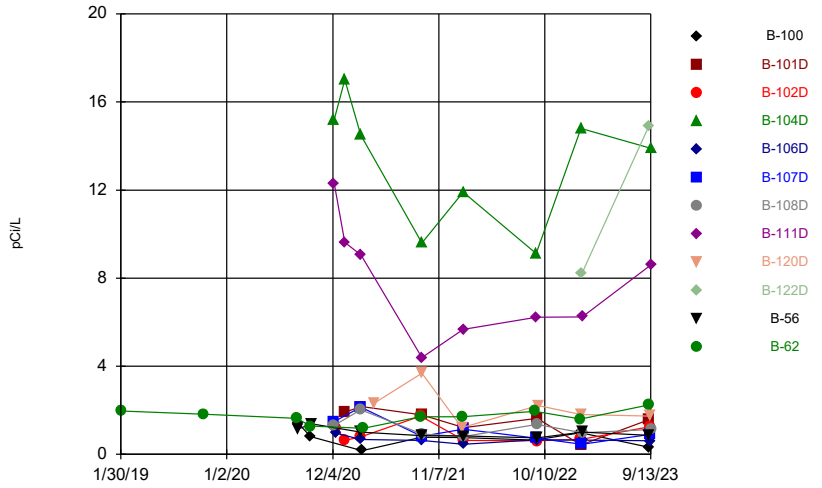
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

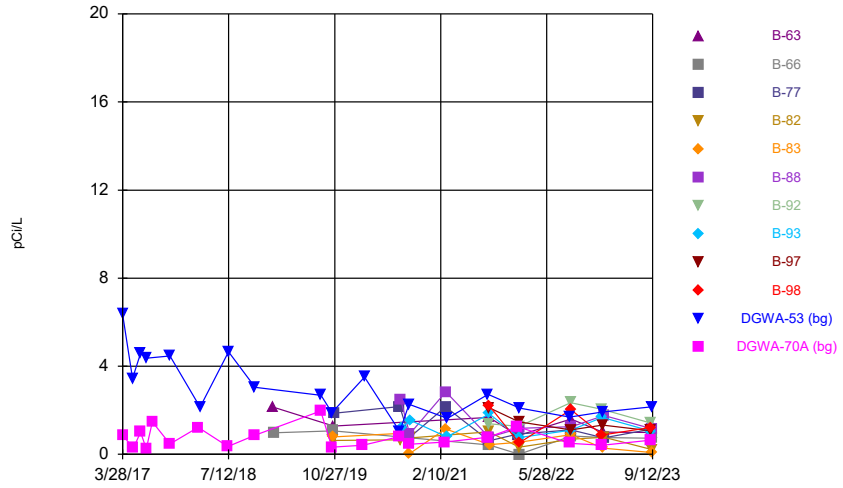
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

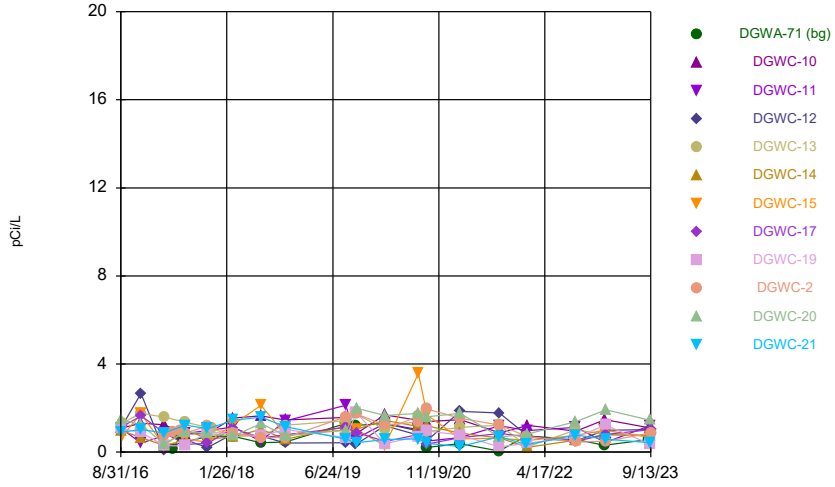
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

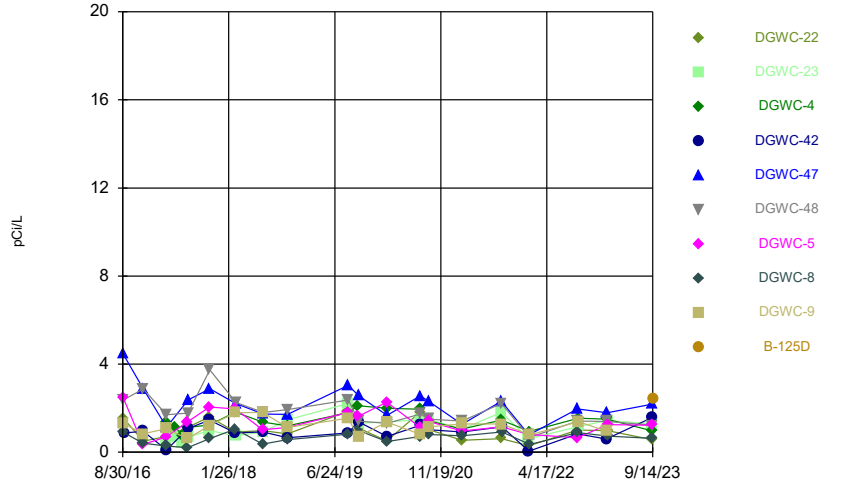
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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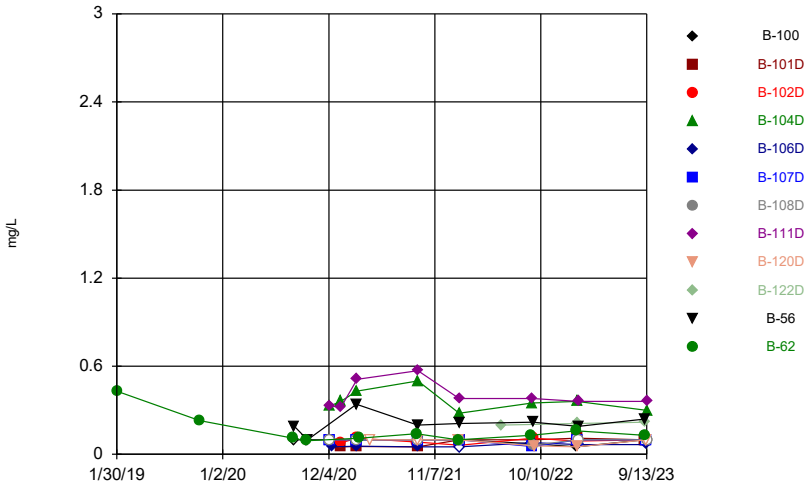
Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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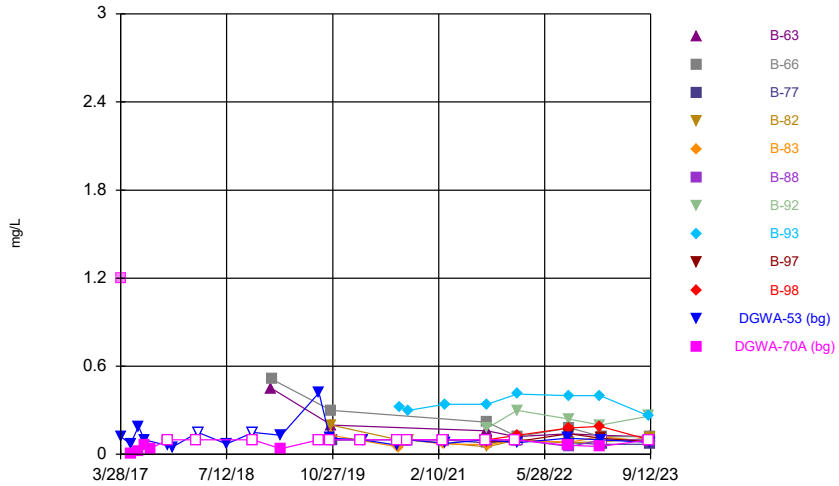
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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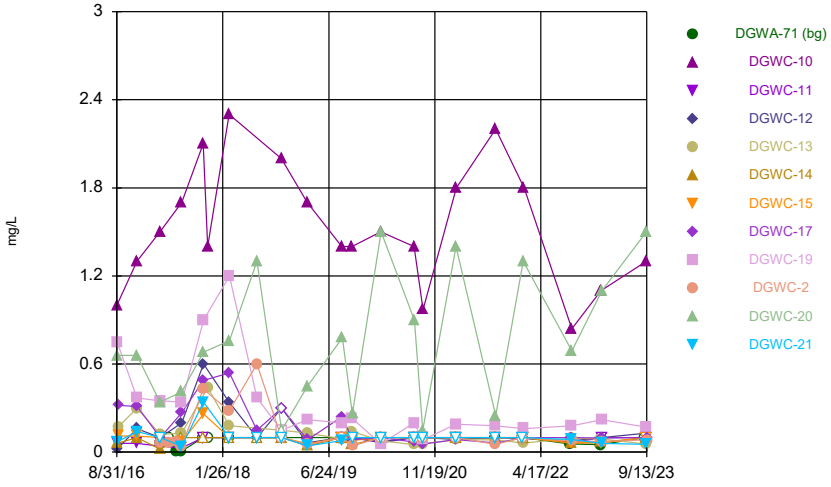
Hollow symbols indicate censored values.

Time Series



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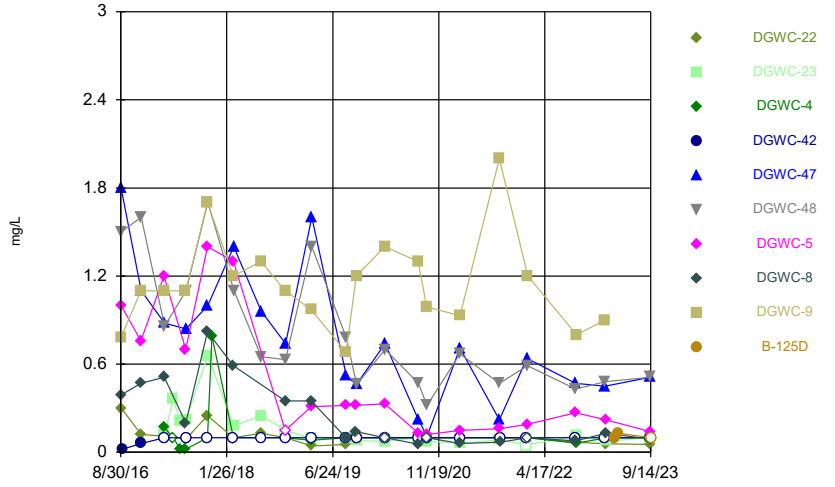
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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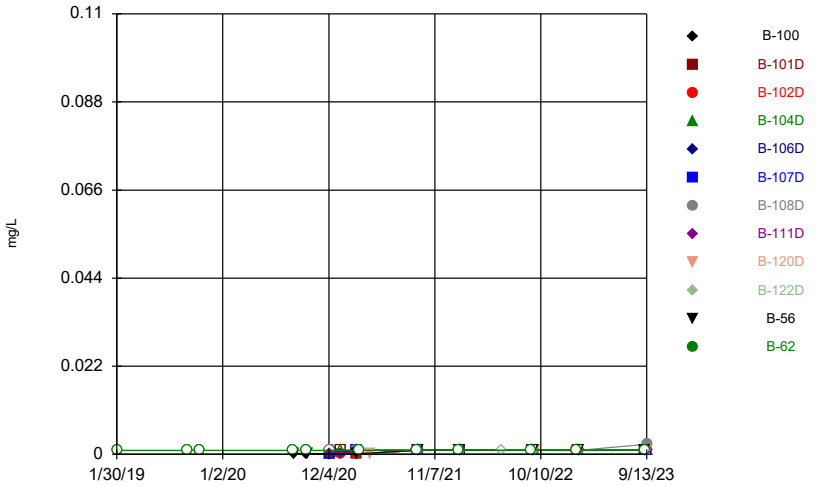
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

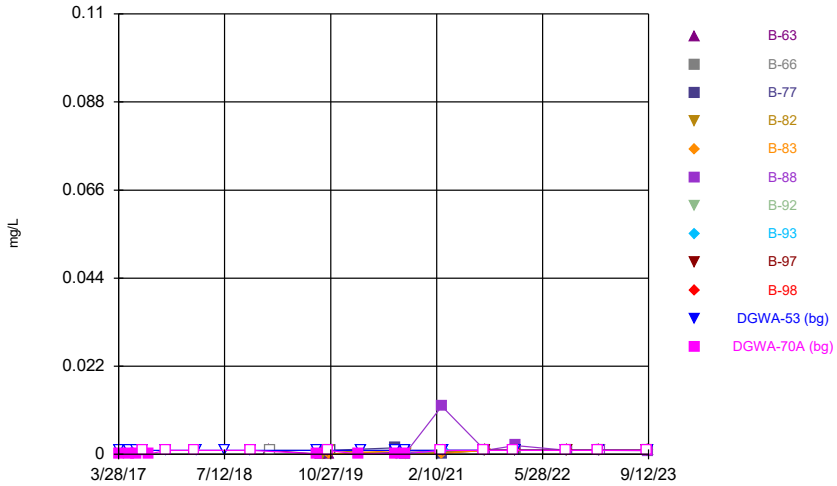
Time Series



Constituent: Lead Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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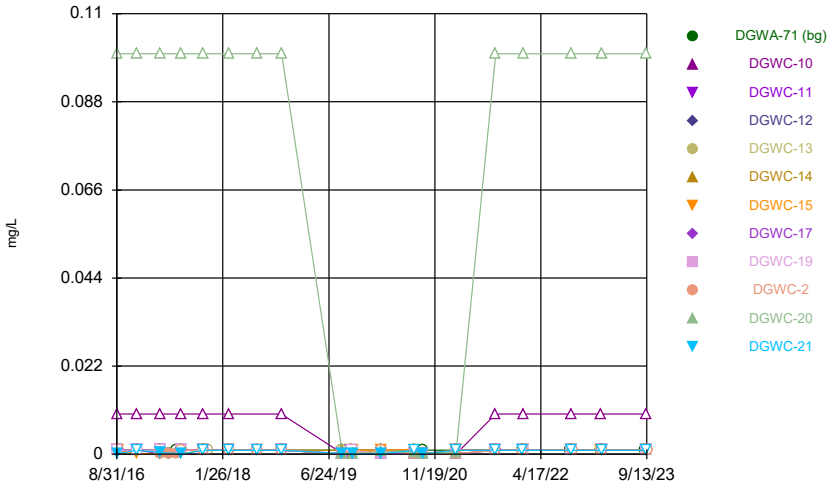
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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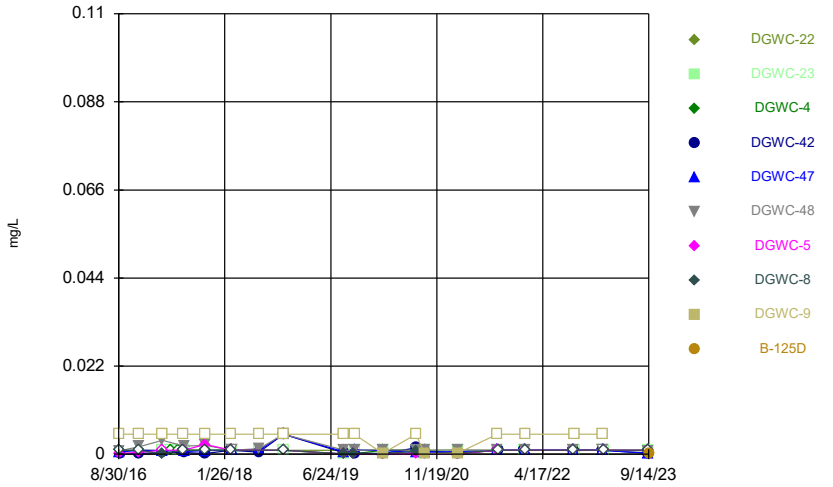
Time Series



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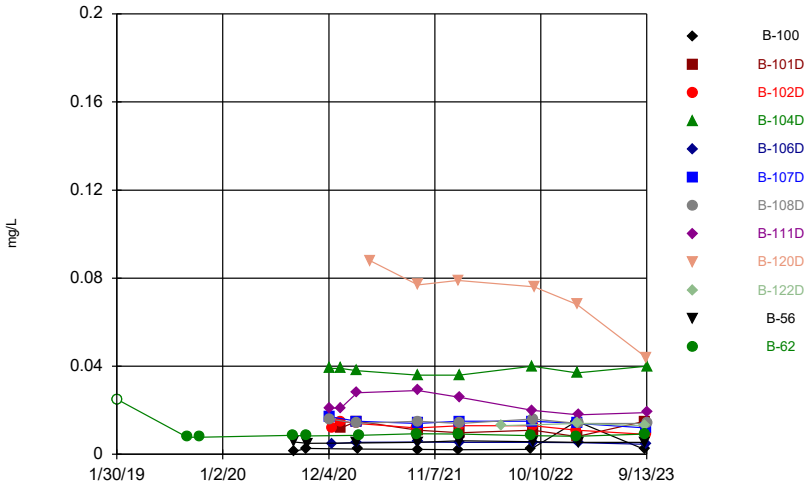
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

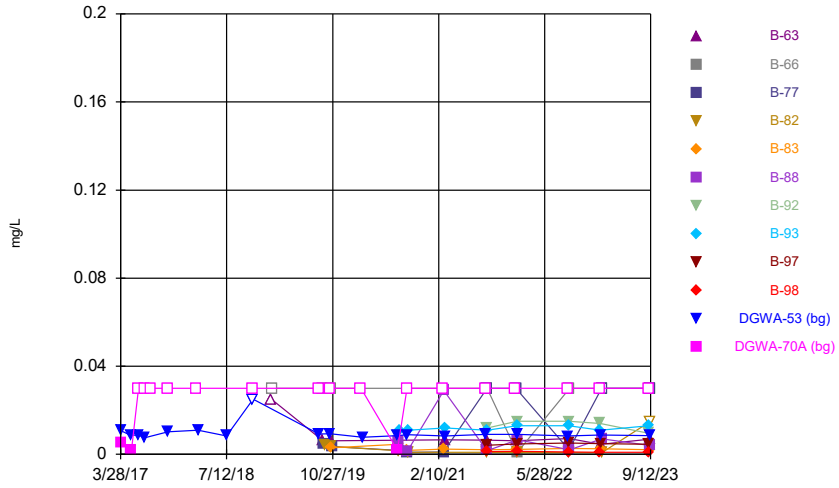
Time Series



Constituent: Lithium Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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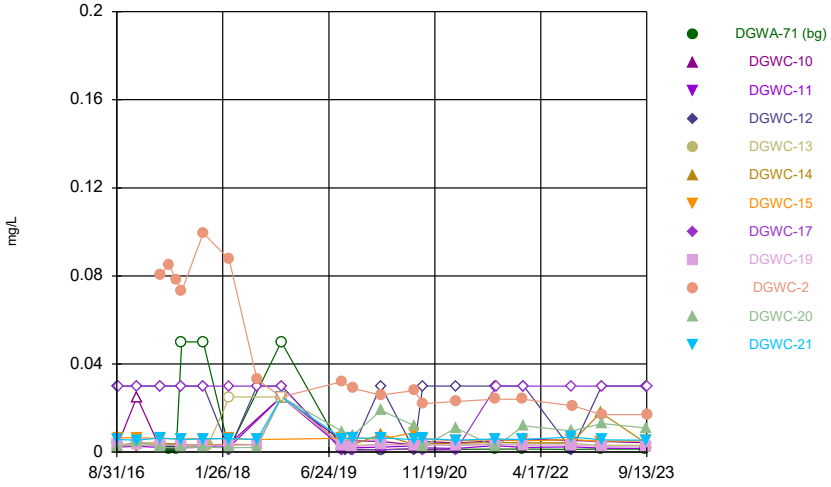
Time Series



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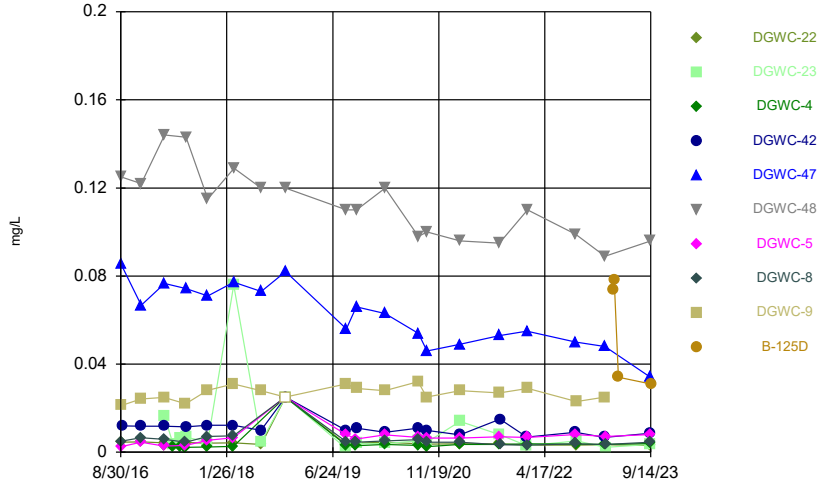
Time Series



Constituent: Lithium Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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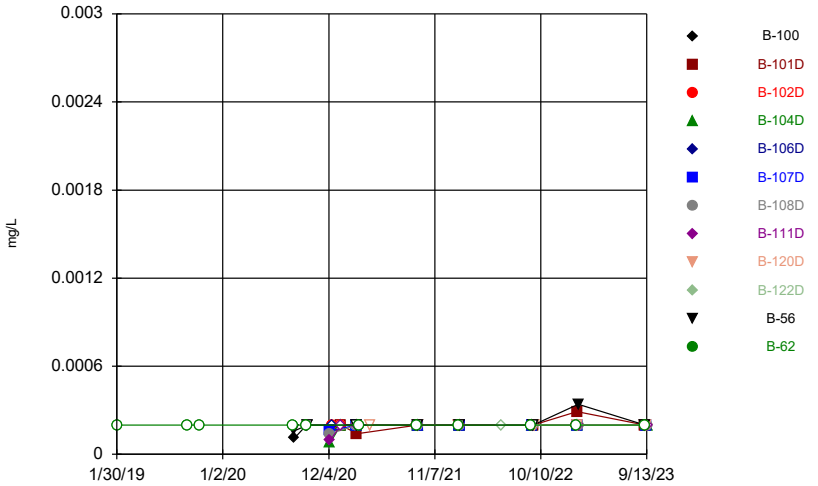
Hollow symbols indicate censored values.

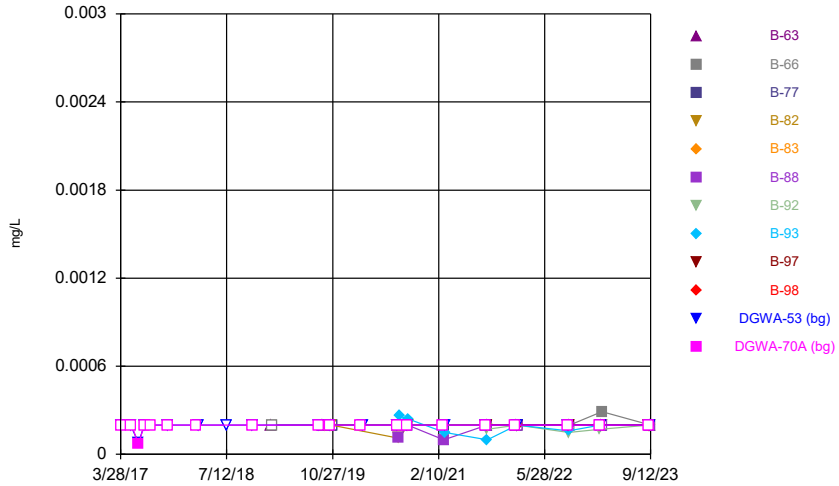
Time Series



Constituent: Mercury Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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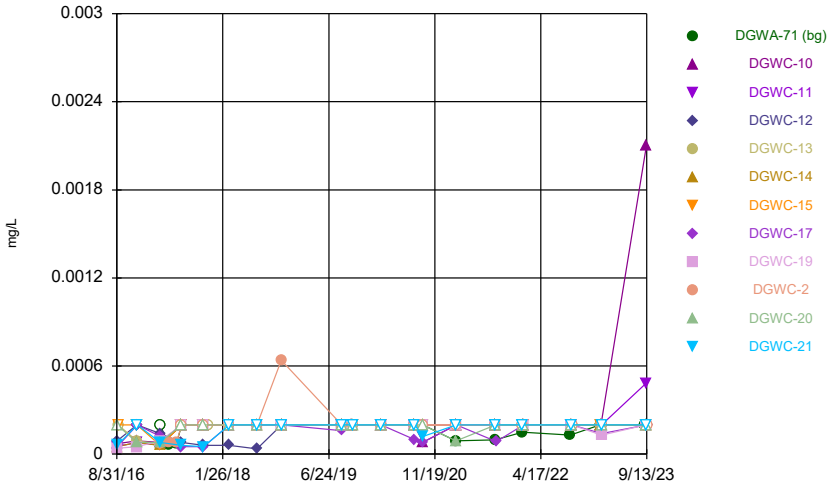

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Sanitas™ v.10.0.15 Software licensed to . UG
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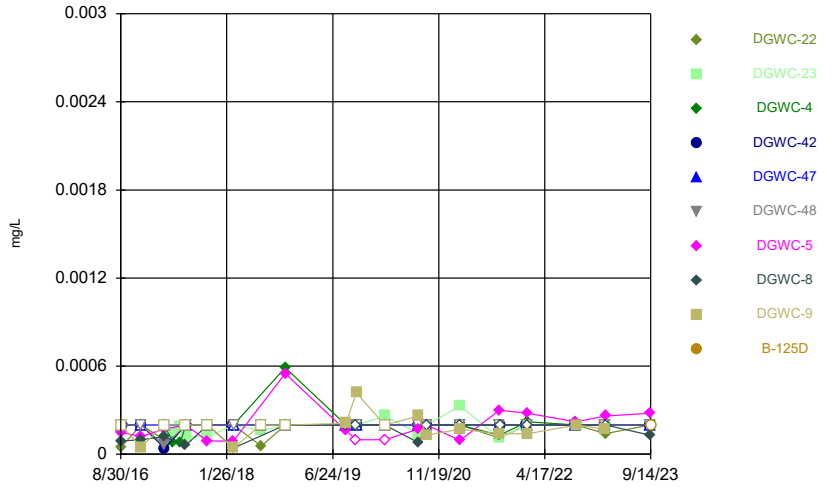

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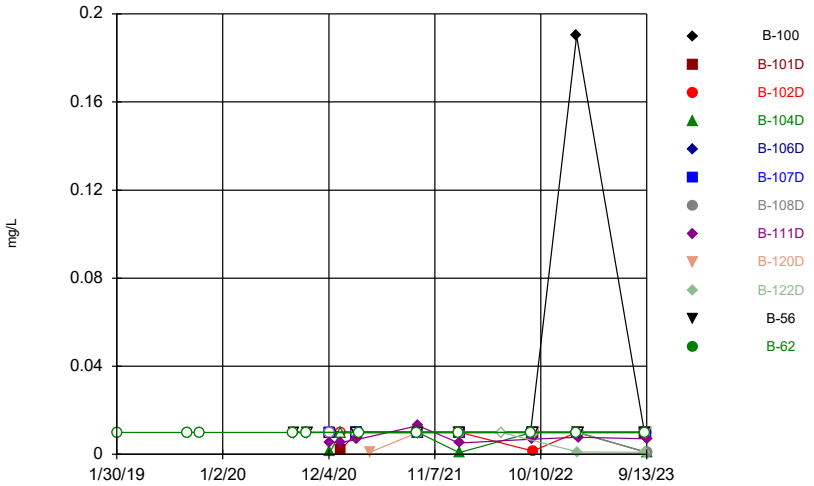
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

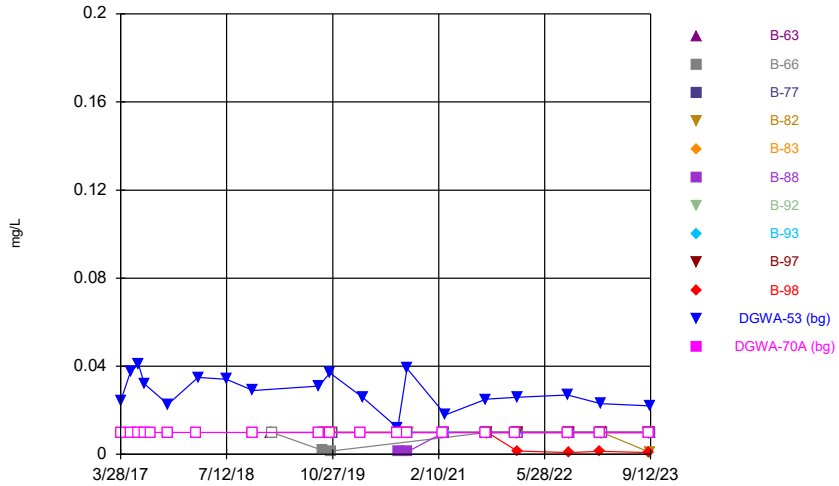
Time Series



Constituent: Molybdenum Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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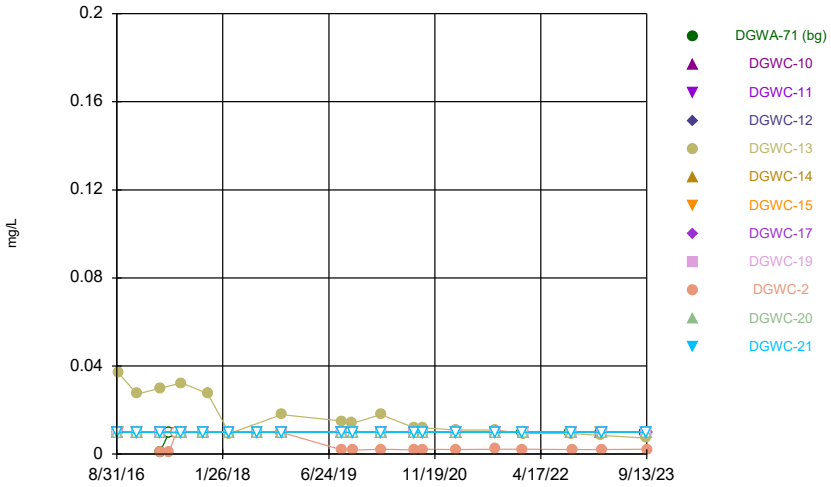
Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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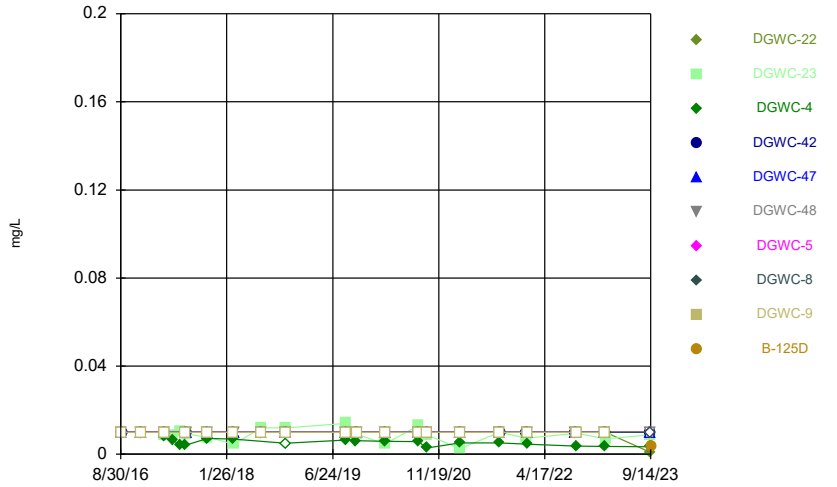
Time Series



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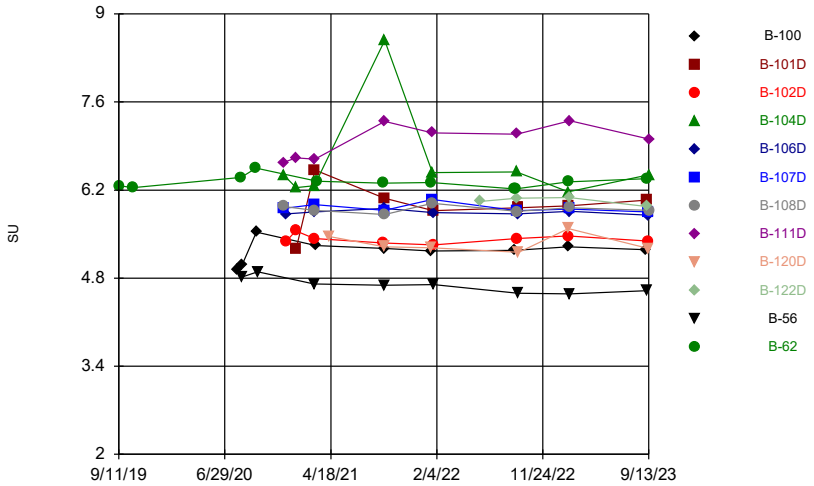
Sanitas™ v.10.0.15 Software licensed to . UG

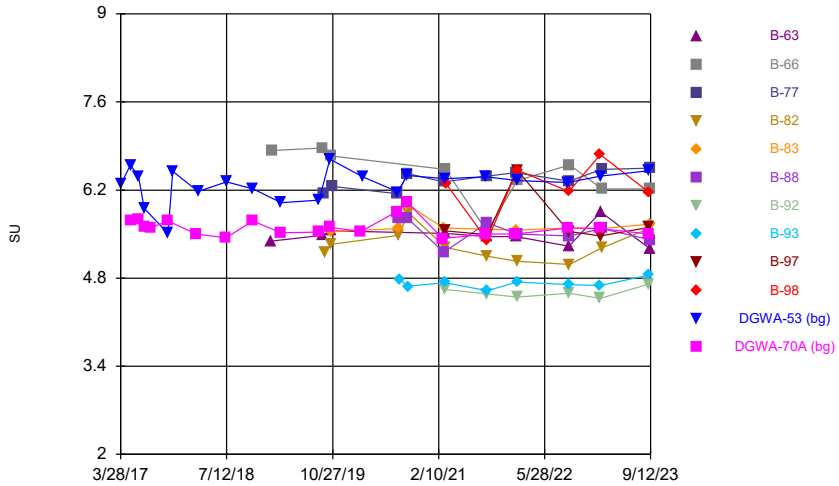
Time Series



Constituent: pH, Field Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



Constituent: pH, Field Analysis Run 1/16/2024 1:59 PM View: AP 234
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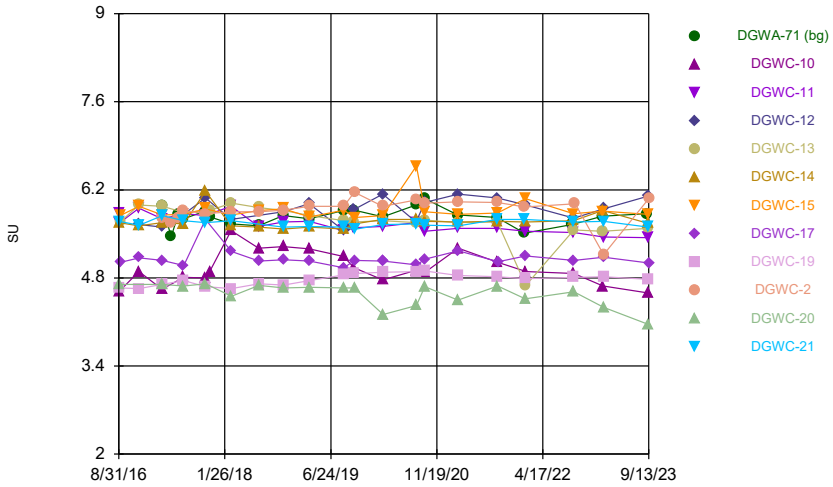
Time Series



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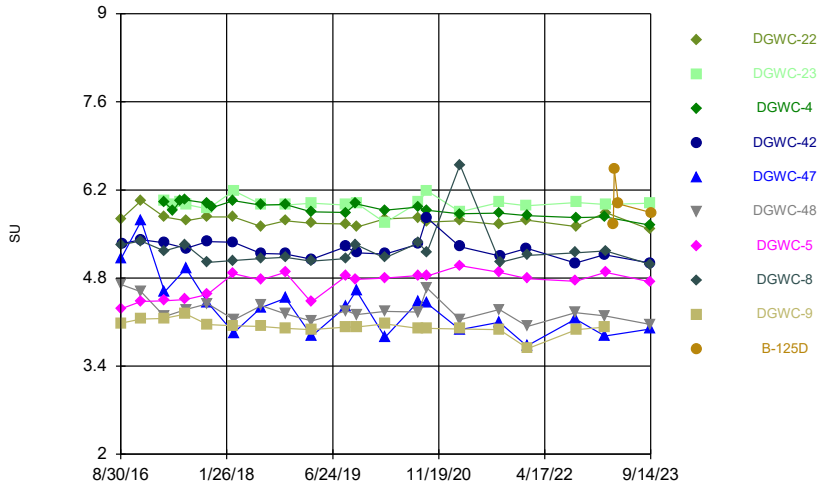
Time Series



Constituent: pH, Field Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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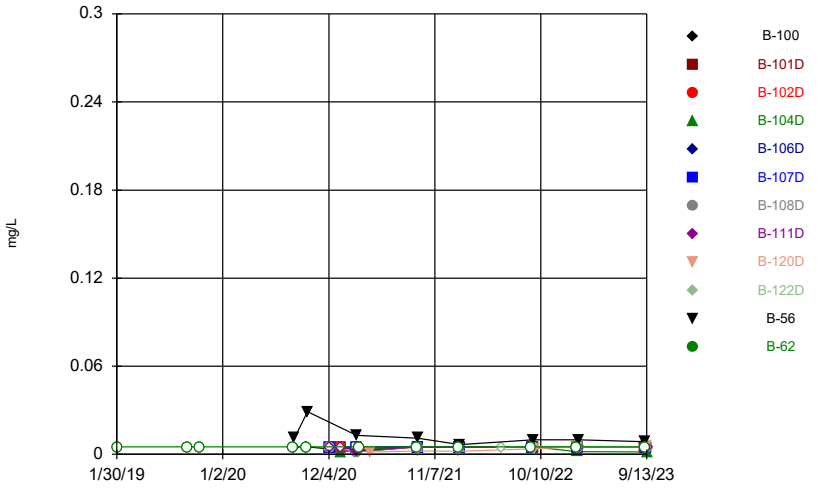
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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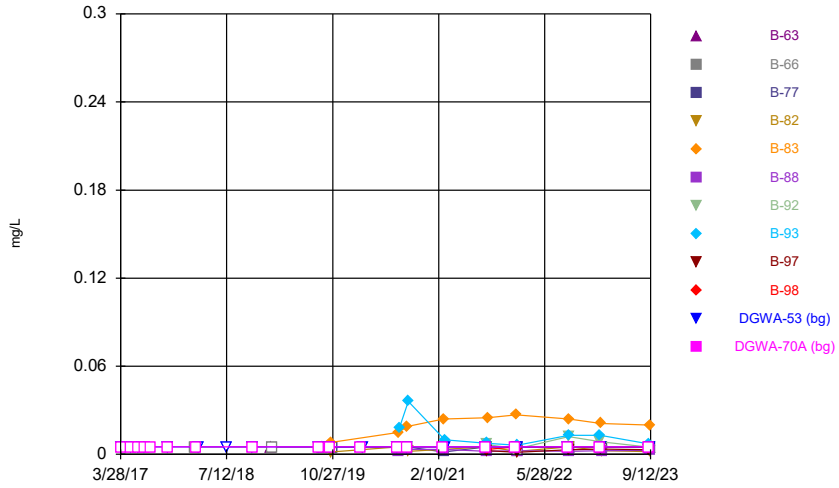
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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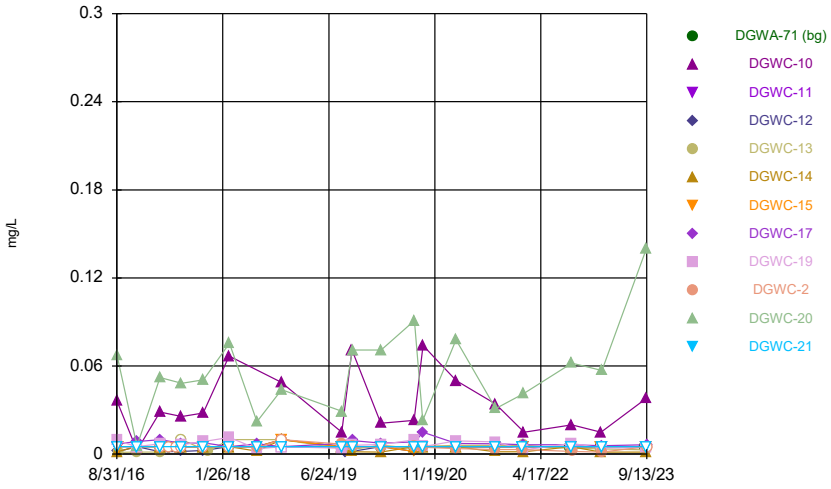

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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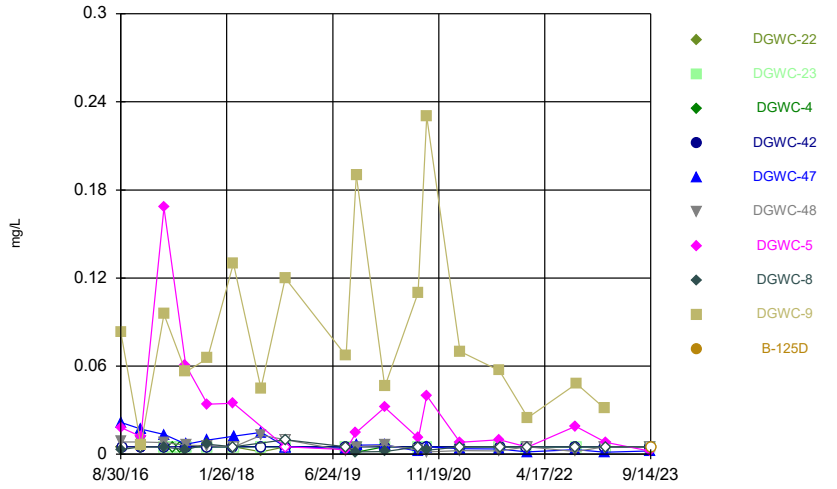
Time Series



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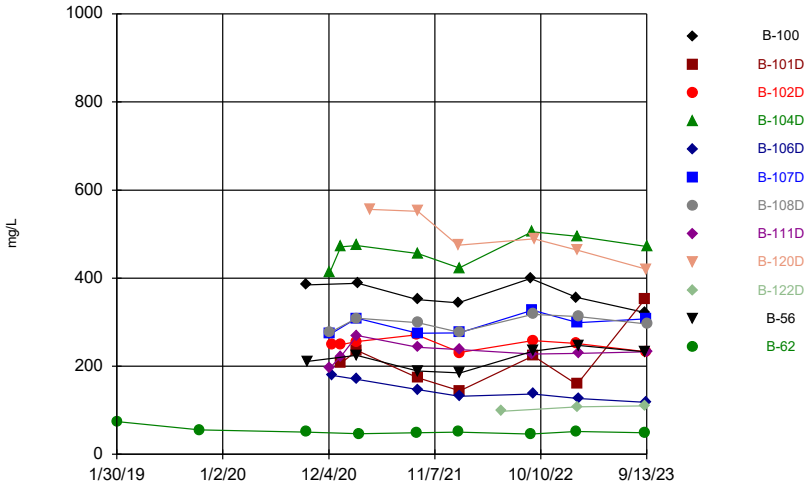
Sanitas™ v.10.0.15 Software licensed to . UG

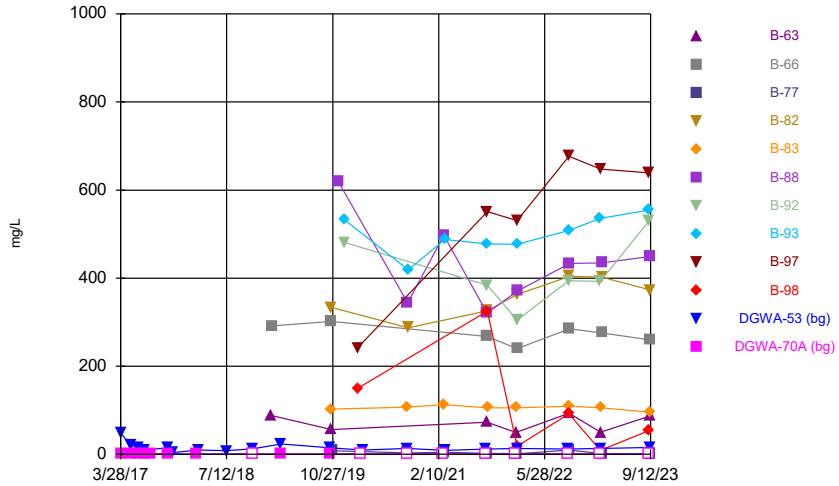
Time Series



Constituent: Sulfate Analysis Run 1/16/2024 1:59 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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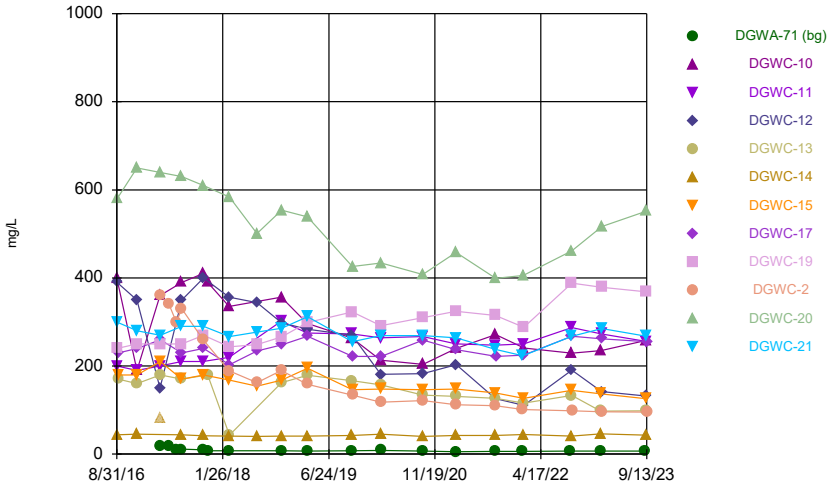
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



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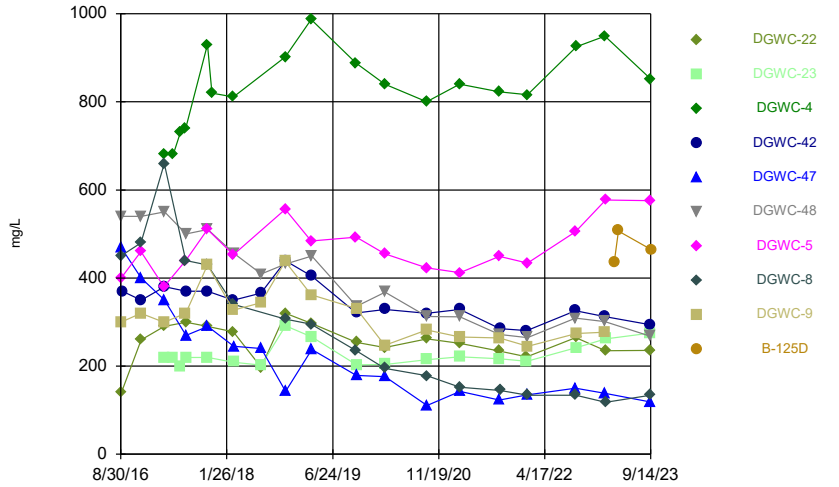
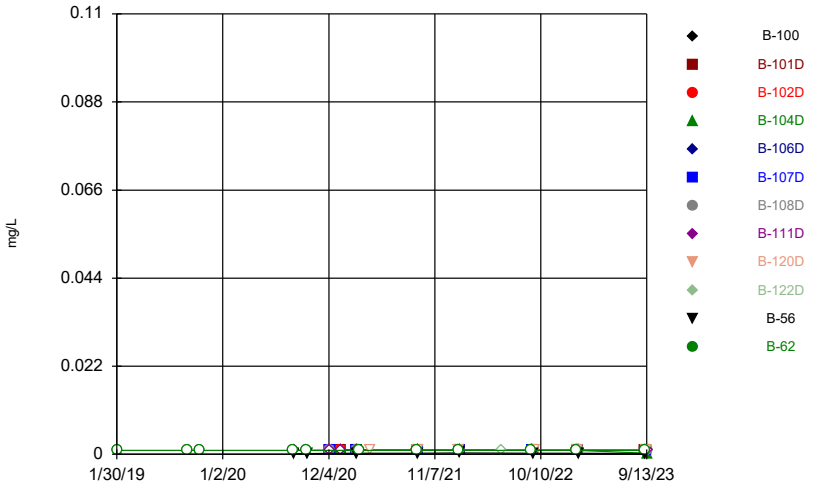
Time Series



Constituent: Sulfate Analysis Run 1/16/2024 2:00 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

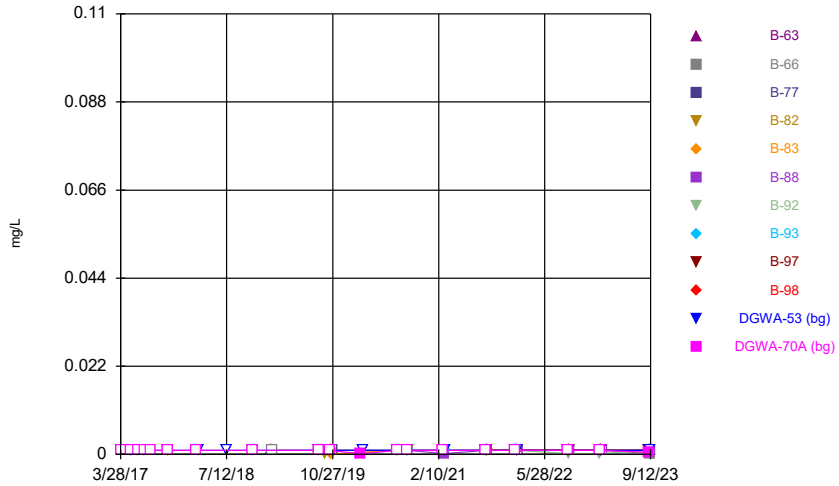
Time Series



Constituent: Thallium Analysis Run 1/16/2024 2:00 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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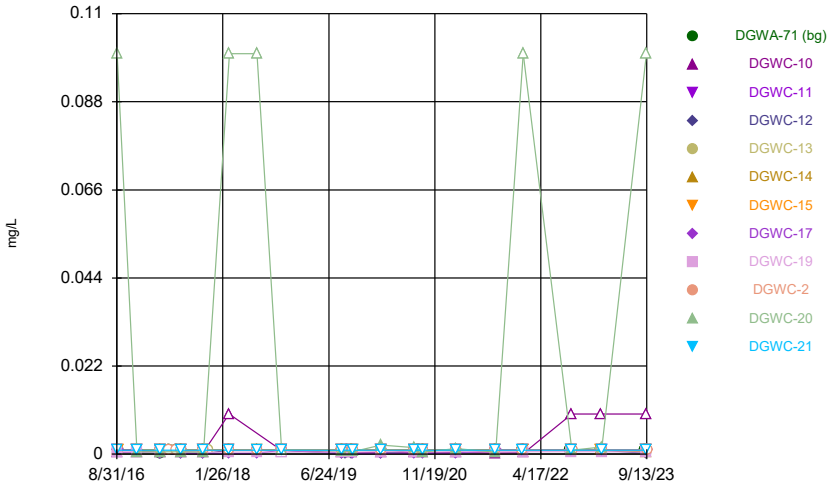

Constituent: Thallium Analysis Run 1/16/2024 2:00 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
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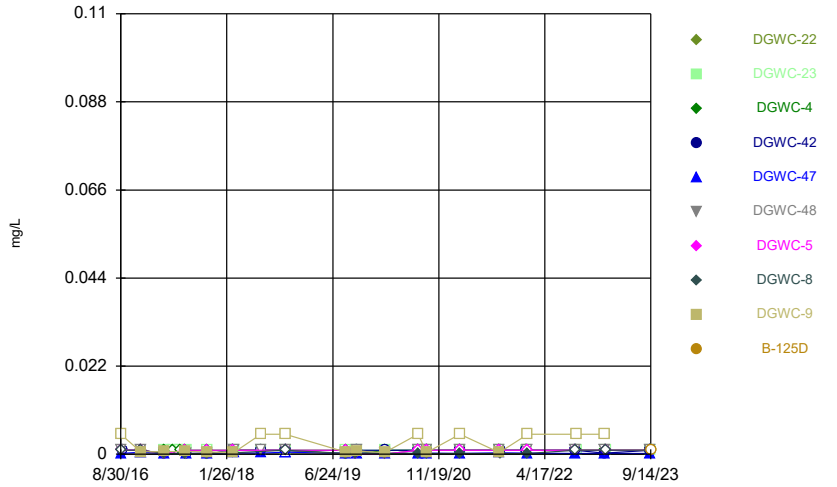
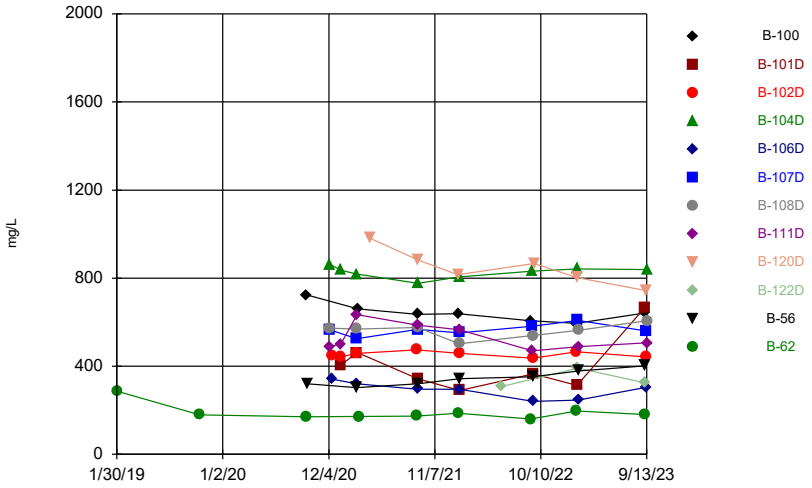
Time Series



Constituent: Thallium Analysis Run 1/16/2024 2:00 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series

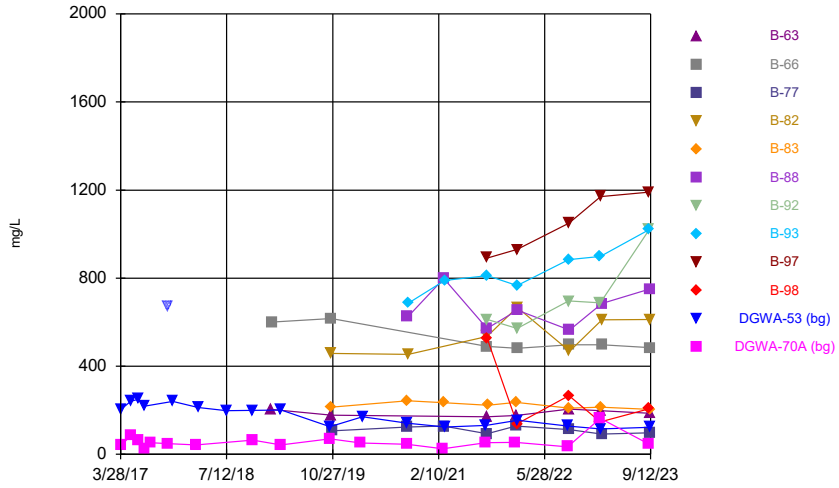


Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:00 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series

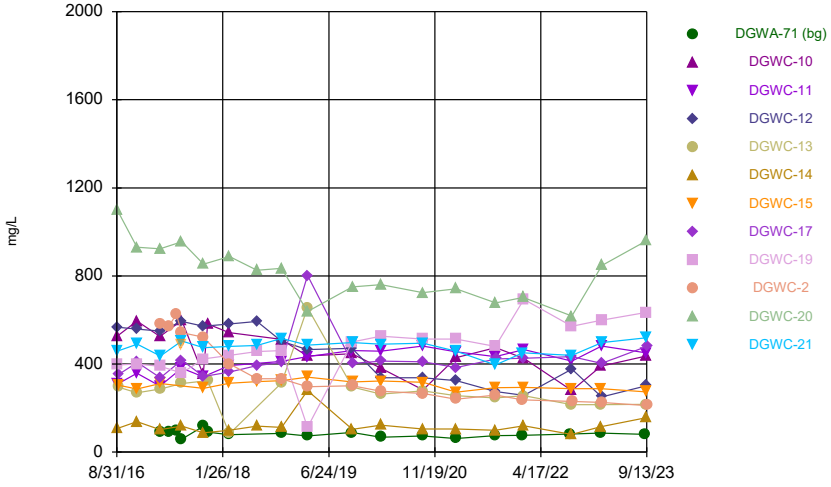


Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:00 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series

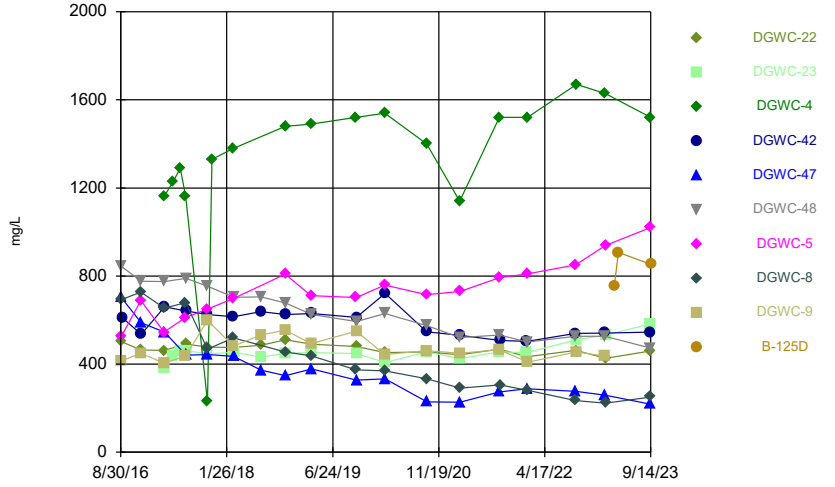


Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:00 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:00 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0013 (J)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.00029 (J)
9/9/2021									
9/10/2021			<0.003						
9/13/2021	<0.003	0.001 (J)			<0.003	<0.003			
9/14/2021				<0.003			<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									<0.003
2/2/2023	<0.003		<0.003						
2/3/2023		<0.003		<0.003					<0.003
2/6/2023						<0.003			
2/7/2023					<0.003		<0.003	<0.003	
9/6/2023	<0.003								
9/7/2023									
9/8/2023		<0.003							
9/11/2023			<0.003		<0.003				
9/12/2023						<0.003			<0.003
9/13/2023				<0.003			<0.003	0.0016 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/25/2020			
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/15/2021			
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021			
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			<0.003
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.003	
9/19/2022			
2/2/2023			<0.003
2/3/2023			
2/6/2023	<0.003		
2/7/2023		<0.003	
9/6/2023			
9/7/2023	<0.003		<0.003
9/8/2023		<0.003	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.003								
1/30/2019		<0.003							
8/27/2019									
8/28/2019									
9/11/2019	<0.003								
9/12/2019		<0.003							
9/18/2019			<0.003						
9/23/2019				<0.003					
10/15/2019									
10/16/2019									
10/21/2019		<0.003		<0.003	<0.003				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			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			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/1/2021									
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
3/12/2021									
9/9/2021									
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				
1/18/2022									
1/20/2022	<0.003		<0.003						
1/21/2022					<0.003				
1/25/2022		<0.003		<0.003					
1/26/2022							<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.003			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.003	0.00096 (J)	
9/13/2022			<0.003		<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									<0.003
2/2/2023	<0.003								
2/3/2023					<0.003				
2/6/2023			<0.003						
2/7/2023		<0.003		<0.003		<0.003			
9/6/2023							<0.003	<0.003	<0.003
9/7/2023	<0.003								
9/11/2023		<0.003		<0.003					
9/12/2023			<0.003		<0.003	<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.003	<0.003
5/11/2017		<0.003	
5/15/2017			<0.003
6/15/2017		0.0006 (J)	<0.003
7/11/2017			<0.003
7/12/2017		<0.003	
8/8/2017			<0.003
10/24/2017		<0.003	<0.003
2/27/2018			<0.003
3/8/2018		<0.003	
7/12/2018		<0.003	
11/6/2018			<0.003
11/7/2018		<0.003	
1/28/2019			
1/30/2019			
8/27/2019			<0.003
8/28/2019		<0.003	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.003
10/16/2019		<0.003	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.003
3/9/2020		<0.003	
8/11/2020			0.0013 (J)
8/13/2020		0.0003 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.003	<0.003
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.003
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.003	
9/9/2021		<0.003	0.0015 (J)
9/13/2021			
9/14/2021			
9/15/2021	<0.003		
9/16/2021			
1/18/2022			<0.003
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		<0.003	
9/7/2022			<0.003
9/8/2022		<0.003	
9/12/2022			
9/13/2022	<0.003		
9/14/2022			
9/16/2022			
1/31/2023	0.001 (J)		<0.003
2/1/2023		<0.003	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.003		<0.003
9/7/2023		<0.003	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.003	<0.003			<0.003			
9/1/2016				<0.003					<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		<0.003
12/8/2016								<0.003	
3/28/2017	0.0007 (J)								
3/29/2017		<0.003	<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								
6/15/2017									
6/16/2017	0.0007 (J)								
7/11/2017	<0.003								
7/12/2017		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/24/2017	<0.003	<0.003	<0.003						
10/25/2017				<0.003		<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			
2/28/2018					<0.003		<0.003	<0.003	<0.003
7/11/2018				<0.003		<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	<0.003
8/27/2019	<0.003	<0.003	<0.003	<0.003		<0.003		<0.003	
8/28/2019					<0.003		0.00033 (J)		<0.003
8/29/2019									
9/17/2019				<0.003					
10/15/2019	<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								<0.003	
3/2/2020	0.0018 (J)		<0.003	0.0003 (J)					
3/3/2020		<0.003			<0.003	<0.003	<0.003		<0.003
3/4/2020								<0.003	
8/11/2020	0.0018 (J)	<0.003	<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		0.0011 (J)			0.00036 (J)
9/23/2020					<0.003		<0.003		
9/24/2020		<0.003						0.00045 (J)	
3/1/2021	0.0019 (J)								
3/2/2021			<0.003		<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			<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
9/10/2021		<0.003							
9/13/2021								<0.003	
1/18/2022	<0.003								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							<0.003	<0.003	
1/25/2022			<0.003	<0.003	<0.003	<0.003			<0.003
1/26/2022		0.0021 (J)							
9/7/2022	<0.003								
9/13/2022						<0.003	<0.003		
9/14/2022								<0.003	<0.003
9/15/2022		<0.003	<0.003	<0.003	<0.003				
9/20/2022									
1/31/2023	<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	<0.003
2/7/2023									
9/6/2023	0.0045								
9/8/2023			<0.003		<0.003	<0.003	<0.003		0.0013 (J)
9/11/2023		<0.003		<0.003					
9/13/2023								<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.003	<0.003
9/6/2016			
9/7/2016			
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			
6/15/2017	0.0006 (J)		
6/16/2017			
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
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	0.0013 (J)
11/6/2018	<0.003		
11/7/2018		<0.003	<0.003
8/27/2019	<0.003		
8/28/2019			
8/29/2019		<0.003	<0.003
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.003	<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		
8/12/2020			
8/13/2020		<0.003	
8/14/2020			<0.003
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			<0.003
3/1/2021			
3/2/2021	<0.003	<0.003	
3/3/2021			<0.003
3/4/2021			
9/8/2021			
9/9/2021	<0.003		<0.003
9/10/2021		<0.003	
9/13/2021			
1/18/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	<0.003		<0.003
1/21/2022		<0.003	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.003	<0.003
9/20/2022	<0.003		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.003		
2/7/2023		<0.003	<0.003
9/6/2023			
9/8/2023			
9/11/2023		0.0018 (J)	<0.003
9/13/2023	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.003	<0.003
8/31/2016							<0.003		
9/1/2016					<0.003	<0.003			
9/2/2016	<0.003								
9/7/2016				<0.003					
12/6/2016							<0.003	<0.003	<0.003
12/8/2016	<0.003			<0.003	<0.003	<0.003			
3/28/2017			<0.003				<0.003		<0.003
3/29/2017	<0.003							<0.003	
3/30/2017		<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	<0.003
7/12/2017		<0.003							
7/13/2017	<0.003			<0.003	<0.003	<0.003			
10/24/2017			<0.003					<0.003	<0.003
10/25/2017	<0.003			<0.003			<0.003		
10/26/2017		<0.003			<0.003	<0.003			
2/27/2018			<0.003				<0.003	<0.003	<0.003
2/28/2018	<0.003			<0.003					
3/1/2018		<0.003			<0.003				
3/2/2018						<0.003			
7/11/2018				<0.003					<0.003
7/12/2018	<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			
11/8/2018		<0.003							
8/27/2019			<0.003				<0.003		<0.003
8/28/2019				<0.003				<0.003	
8/29/2019	<0.003	<0.003			<0.003	<0.003			
10/15/2019			<0.003						
10/16/2019							<0.003	<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									<0.003
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								
9/22/2020			<0.003	<0.003			<0.003		<0.003
9/23/2020					0.0012 (J)	0.00039 (J)		<0.003	
9/24/2020	<0.003	<0.003							
3/1/2021			0.00049 (J)						
3/2/2021							0.0015 (J)	0.00046 (J)	<0.003
3/3/2021	<0.003	<0.003		<0.003	<0.003	<0.003			
9/9/2021		<0.003							
9/10/2021	<0.003		<0.003		<0.003	0.0018 (J)	<0.003		<0.003
9/13/2021				<0.003				<0.003	
1/20/2022	<0.003	<0.003		<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.003				
1/24/2022			<0.003			<0.003	<0.003		
1/25/2022								<0.003	
1/26/2022									<0.003
9/13/2022				<0.003	<0.003	<0.003			
9/14/2022							<0.003		
9/15/2022								<0.003	
9/16/2022	<0.003								
9/19/2022			<0.003						<0.003
9/20/2022		<0.003							
2/1/2023				<0.003					
2/3/2023			<0.003		<0.003	<0.003			<0.003
2/6/2023	<0.003	<0.003							
2/7/2023							<0.003	<0.003	
9/11/2023	<0.003	<0.003							
9/12/2023					<0.003			<0.003	
9/13/2023			<0.003	<0.003		<0.003	<0.003		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
7/23/2020	<0.005								
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
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	
3/3/2021									
3/4/2021			<0.005	0.0025 (J)	<0.005	<0.005	<0.005		
3/5/2021		0.0017 (J)						0.0023 (J)	
3/8/2021	<0.005								
3/12/2021									
4/15/2021									<0.005
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				0.0019 (J)			<0.005	0.0029 (J)	<0.005
1/20/2022									0.0016 (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									<0.005
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					<0.005
2/6/2023						<0.005			
2/7/2023					<0.005		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			<0.005
9/13/2023				<0.005			<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
7/23/2020			
8/13/2020			<0.005
8/17/2020		0.0032 (J)	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.0047 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021			
1/20/2022			0.0033 (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			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.005	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		0.005 (J)	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		0.0043 (J)	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018		<0.005							
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		<0.005	<0.005				
10/22/2019	<0.005								
10/24/2019			0.0029 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.002 (J)						
8/14/2020					<0.005				
8/17/2020				<0.005		<0.005			
8/19/2020								0.0013 (J)	
9/22/2020									
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/1/2021									
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/9/2021									
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				
1/18/2022									
1/20/2022	0.0022 (J)		0.003 (J)						
1/21/2022					0.0014 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/25/2022		<0.005		0.003 (J)					
1/26/2022							0.0015 (J)	0.002 (J)	0.0014 (J)
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.005	<0.005	
9/13/2022			<0.005		<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									<0.005
2/2/2023	<0.005								
2/3/2023					<0.005				
2/6/2023			<0.005						
2/7/2023		<0.005		0.004 (J)		<0.005			
9/6/2023							<0.005	<0.005	<0.005
9/7/2023	<0.005								
9/11/2023		<0.005		<0.005					
9/12/2023			<0.005		<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
11/22/2016			
3/28/2017		0.0005 (J)	<0.005
5/11/2017		0.0005 (J)	
5/15/2017			<0.005
6/15/2017		<0.005	<0.005
7/11/2017			<0.005
7/12/2017		<0.005	
8/8/2017			<0.005
10/24/2017		<0.005	<0.005
2/19/2018			
2/27/2018			<0.005
3/8/2018		<0.005	
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005 (J)	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.00052 (J)
10/16/2019		0.0018 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.005
3/9/2020		0.00068 (J)	
8/11/2020			<0.005
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.00093 (J)	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005		
9/16/2021			
1/18/2022			0.0046 (J)
1/20/2022			
1/21/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		0.0024 (J)	
9/7/2022			0.0024 (J)
9/8/2022		0.0029 (J)	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		0.0029 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0058	<0.005			<0.005			
9/1/2016				<0.005					0.0022 (J)
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		<0.005
12/8/2016								<0.005	
3/28/2017	<0.005								
3/29/2017		0.0055	<0.005	<0.005		<0.005			0.002 (J)
3/30/2017					<0.005		0.0006 (J)	0.0008 (J)	
5/11/2017									
5/12/2017	0.0004 (J)								
6/15/2017									
6/16/2017	<0.005								
7/11/2017	<0.005								
7/12/2017		0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	<0.005	0.0058	<0.005						
10/25/2017				0.0006 (J)		<0.005	<0.005	0.0007 (J)	0.0022 (J)
11/15/2017					<0.005				
2/27/2018	<0.005	0.0105	<0.005	<0.005		<0.005			
2/28/2018					<0.005		<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	<0.005 (J)	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	<0.005	0.0024 (J)	<0.005	<0.005		<0.005		<0.005	
8/28/2019					<0.005		<0.005		0.00049 (J)
8/29/2019									
9/17/2019				<0.005					
10/15/2019	0.00071 (J)	0.0078	<0.005	0.00063 (J)					
10/16/2019					<0.005	0.00039 (J)			0.00046 (J)
10/17/2019							0.00064 (J)		
10/18/2019								0.0012 (J)	
3/2/2020	<0.005		<0.005	<0.005					
3/3/2020		0.0025 (J)			<0.005	<0.005	<0.005		<0.005
3/4/2020								0.0014 (J)	
8/11/2020	<0.005	0.0028 (J)	<0.005	<0.005		<0.005			0.0014 (J)
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			0.0017 (J)
9/23/2020					<0.005		<0.005		
9/24/2020		0.0078						0.0011 (J)	
3/1/2021	<0.005								
3/2/2021			<0.005		<0.005	<0.005	<0.005		0.0013 (J)
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		0.0027 (J)
9/10/2021		0.0076							
9/13/2021								<0.005	
1/18/2022	0.0054								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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			0.0014 (J)
1/26/2022		0.0043 (J)							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								<0.005	<0.005
9/15/2022		0.0024 (J)	<0.005	<0.005	<0.005				
9/20/2022									
1/31/2023	<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	<0.005
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		<0.005	<0.005	<0.005		<0.005
9/11/2023		0.0065		<0.005					
9/13/2023								<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0159	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0037 (J)	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.015	
3/30/2017	<0.005		<0.005
5/11/2017	<0.005		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		0.0121	<0.005
10/24/2017	<0.005		
10/25/2017		0.0135	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		0.0177	<0.005
7/11/2018	<0.005	0.0055	<0.005
11/6/2018	<0.005		
11/7/2018		0.0054	<0.005
8/27/2019	0.00099 (J)		
8/28/2019			
8/29/2019		0.0064	<0.005
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.005	0.0094	<0.005
10/18/2019			
3/2/2020			
3/3/2020	0.0025 (J)		<0.005
3/4/2020		0.029	
8/11/2020	<0.005		
8/12/2020			
8/13/2020		0.014	
8/14/2020			<0.005
9/22/2020		0.0063	
9/23/2020	<0.005		
9/24/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.019	
3/3/2021			<0.005
3/4/2021			
9/8/2021			
9/9/2021	<0.005		<0.005
9/10/2021		0.0083	
9/13/2021			
1/18/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.0023 (J)		<0.005
1/21/2022		0.015	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.016	<0.005
9/20/2022	<0.005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005		
2/7/2023		0.023	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.029	<0.005
9/13/2023	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	<0.005								
9/7/2016				<0.005					
12/6/2016							0.0032 (J)	<0.005	<0.005
12/8/2016	<0.005			<0.005	0.0032 (J)	<0.005			
3/28/2017			0.0005 (J)				0.0385		0.0243
3/29/2017	<0.005							0.001 (J)	
3/30/2017		<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)	0.0194
7/12/2017		<0.005							
7/13/2017	<0.005			<0.005	0.0018 (J)	0.0012 (J)			
10/24/2017			<0.005					0.0015 (J)	0.0249
10/25/2017	<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)	0.0405
2/28/2018	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					0.016
7/12/2018	<0.005	<0.005			0.0023 (J)	0.0015 (J)			
11/6/2018			<0.005				<0.005	<0.005	0.017
11/7/2018	<0.005			<0.005	<0.005 (J)	<0.005			
11/8/2018		<0.005							
8/27/2019			<0.005				<0.005		0.021
8/28/2019				<0.005				<0.005	
8/29/2019	<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	0.0013 (J)				0.033
10/18/2019	<0.005	<0.005				0.00079 (J)			
3/2/2020			<0.005				0.0052		
3/3/2020	<0.005							0.00096 (J)	0.015
3/4/2020		<0.005		<0.005	0.0012 (J)	0.0006 (J)			
8/11/2020									0.022
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								
9/22/2020			<0.005	<0.005			0.0062		0.04
9/23/2020					<0.005	<0.005		<0.005	
9/24/2020	<0.005	<0.005							
3/1/2021			<0.005						
3/2/2021							0.0013 (J)	<0.005	0.021
3/3/2021	<0.005	<0.005		<0.005	<0.005	<0.005			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		0.0016 (J)	<0.005	0.0031 (J)		0.031
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
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									0.012
9/13/2022				<0.005	<0.005	<0.005			
9/14/2022							0.0038 (J)		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						0.016
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		<0.005	<0.005			0.014
2/6/2023	<0.005	<0.005							
2/7/2023							0.0036 (J)	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					<0.005			<0.005	
9/13/2023			<0.005	<0.005		<0.005	<0.005		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.015								
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									0.044
9/9/2021									
9/10/2021			0.02						
9/13/2021	0.021	0.076			0.02	0.087			
9/14/2021				0.021			0.06	0.043	0.031
1/20/2022									0.025
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									0.023
2/2/2023	0.098		0.02						
2/3/2023		0.048		0.017					0.021
2/6/2023						0.049			
2/7/2023					0.022		0.051	0.028	
9/6/2023	0.021								
9/7/2023									
9/8/2023		0.075							
9/11/2023			0.019		0.023				
9/12/2023						0.046			0.021
9/13/2023				0.02			0.051	0.031	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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
9/25/2020			
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/15/2021			
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021			
1/20/2022			0.021
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			0.018
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.028	
9/19/2022			
2/2/2023			0.019
2/3/2023			
2/6/2023	0.04		
2/7/2023		0.027	
9/6/2023			
9/7/2023	0.044		0.015
9/8/2023		0.028	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.028								
1/30/2019		0.016							
8/27/2019									
8/28/2019									
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/15/2019									
10/16/2019									
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			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			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/1/2021									
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				
1/18/2022									
1/20/2022	0.02		0.13						
1/21/2022					0.024				
1/25/2022		0.021		0.026					
1/26/2022							0.016	0.021	0.02

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						0.018			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.017	0.015	
9/13/2022			0.089		0.025				0.02
9/14/2022	0.032								
9/16/2022		0.02		0.02		0.016			
1/31/2023							0.015	0.015	
2/1/2023									0.021
2/2/2023	0.056								
2/3/2023					0.024				
2/6/2023			0.11						
2/7/2023		0.023		0.023		0.017			
9/6/2023							0.013	0.017	0.02
9/7/2023	0.025								
9/11/2023		0.028		0.024					
9/12/2023			0.12		0.028	0.017			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.134	0.0166
5/11/2017		0.126	
5/15/2017			0.0181
6/15/2017		0.14	0.0277
7/11/2017			0.0306
7/12/2017		0.173	
8/8/2017			0.0277
10/24/2017		0.109	0.0333
2/27/2018			0.0341
3/8/2018		0.19	
7/12/2018		0.18	
11/6/2018			0.037
11/7/2018		0.15	
1/28/2019			
1/30/2019			
8/27/2019			0.037
8/28/2019		0.087	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.034
10/16/2019		0.077	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.035
3/9/2020		0.099	
8/11/2020			0.041
8/13/2020		0.046	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.07	0.038
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.042
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.076	
9/9/2021		0.099	0.038
9/13/2021			
9/14/2021			
9/15/2021	0.082		
9/16/2021			
1/18/2022			0.043
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.035		

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.068	
9/7/2022			0.039
9/8/2022		0.077	
9/12/2022			
9/13/2022	0.092		
9/14/2022			
9/16/2022			
1/31/2023	0.041		0.041
2/1/2023		0.089	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.051		0.041
9/7/2023		0.12	
9/11/2023			
9/12/2023			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0321	0.0545			0.0576			
9/1/2016				0.0254					0.0214
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		0.0191
12/8/2016								0.062	
3/28/2017	0.0378								
3/29/2017		0.0335	0.0565	0.0268		0.0693			0.0209
3/30/2017					0.0308		0.0495	0.0615	
5/11/2017									
5/12/2017	0.04								
6/15/2017									
6/16/2017	0.0369								
7/11/2017	0.0362								
7/12/2017		0.0314	0.0572	0.0262	0.0291	0.0585	0.0517	0.0532	0.0212
10/24/2017	0.0313	0.0317	0.0596						
10/25/2017				0.0268		0.0563	0.0474	0.0544	0.021
11/15/2017					0.0309				
2/27/2018	0.0287	0.028	0.0672	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
11/6/2018	0.026	0.025	0.074						
11/7/2018				0.028	0.034	0.055	0.042	0.044	0.024
8/27/2019	0.027	0.021	0.071	0.024		0.059		0.05	
8/28/2019					0.033		0.047		0.026
8/29/2019									
9/17/2019				0.02					
10/15/2019	0.024	0.024	0.064	0.02					
10/16/2019					0.034	0.059			0.024
10/17/2019							0.046		
10/18/2019								0.045	
3/2/2020	0.026		0.071	0.04					
3/3/2020		0.024			0.035	0.064	0.05		0.028
3/4/2020								0.044	
8/11/2020	0.026	0.024	0.064	0.028		0.061			0.027
8/12/2020					0.032				
8/13/2020							0.06		
8/14/2020								0.046	
9/22/2020	0.024		0.058	0.036		0.06			0.026
9/23/2020					0.03		0.043		
9/24/2020		0.021						0.033	
3/1/2021	0.028								
3/2/2021			0.052		0.03	0.064	0.043		0.026
3/3/2021				0.035				0.036	
3/4/2021		0.025							
9/8/2021	0.025								
9/9/2021			0.054	0.04	0.027	0.059	0.041		0.025
9/10/2021		0.019							
9/13/2021								0.031	
1/18/2022	0.029								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							0.041	0.031	
1/25/2022			0.047	0.054	0.028	0.064			0.026
1/26/2022		0.022							
9/7/2022	0.025								
9/13/2022						0.063	0.042		
9/14/2022								0.031	0.027
9/15/2022		0.018	0.047	0.035	0.027				
9/20/2022									
1/31/2023	0.028								
2/1/2023					0.023	0.057			
2/2/2023		0.02					0.039		
2/6/2023			0.039	0.047				0.029	0.025
2/7/2023									
9/6/2023	0.03								
9/8/2023			0.034		0.022	0.057	0.035		0.022
9/11/2023		0.019		0.058					
9/13/2023								0.031	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0097 (J)	0.0252
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0087 (J)	
12/8/2016			0.0262
3/28/2017			
3/29/2017		0.0094 (J)	
3/30/2017	0.0232		0.0272
5/11/2017	0.0231		
5/12/2017			
6/15/2017	0.0223		
6/16/2017			
7/11/2017	0.0201		
7/12/2017		0.0099 (J)	0.0276
10/24/2017	0.0206		
10/25/2017		0.0096 (J)	0.0262
11/15/2017			
2/27/2018	0.0207		
2/28/2018		<0.01	0.027
7/11/2018	0.022	0.01	0.027
11/6/2018	0.021		
11/7/2018		0.011	0.024
8/27/2019	0.023		
8/28/2019			
8/29/2019		0.018	0.027
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.022	0.015	0.027
10/18/2019			
3/2/2020			
3/3/2020	0.022		0.027
3/4/2020		0.017	
8/11/2020	0.022		
8/12/2020			
8/13/2020		0.019	
8/14/2020			0.027
9/22/2020		0.011	
9/23/2020	0.023		
9/24/2020			0.024
3/1/2021			
3/2/2021	0.023	0.021	
3/3/2021			0.024
3/4/2021			
9/8/2021			
9/9/2021	0.022		0.023
9/10/2021		0.0098	
9/13/2021			
1/18/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.022		0.024
1/21/2022		0.018	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.017	0.024
9/20/2022	0.02		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.02		
2/7/2023		0.019	0.024
9/6/2023			
9/8/2023			
9/11/2023		0.014	0.024
9/13/2023	0.023		

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.0397								
9/7/2016				0.0194					
12/6/2016							0.0186	0.0431	0.0138
12/8/2016	0.0408			0.0189	0.0247	0.0155			
3/28/2017			0.0363				0.0187		0.017
3/29/2017	0.0417							0.044	
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)	0.0389	0.0154 (J)
7/12/2017		0.0186							
7/13/2017	0.0376			0.021	0.0165	0.014			
10/24/2017			0.0351					0.0369	0.0148
10/25/2017	0.0384			0.0196			0.0175		
10/26/2017		0.0176			0.0152	0.0117			
2/27/2018			0.0364				0.0172	0.0346	0.0148
2/28/2018	0.0353			0.0171					
3/1/2018		0.0164			0.0164				
3/2/2018						0.0131			
7/11/2018				0.02					0.017
7/12/2018	0.036	0.022			0.015	0.013			
11/6/2018			0.035				0.016	0.027	0.015
11/7/2018	0.031			0.017	0.02	0.014			
11/8/2018		0.022							
8/27/2019			0.036				0.017		0.016
8/28/2019				0.018				0.025	
8/29/2019	0.031	0.025			0.018	0.014			
10/15/2019			0.033						
10/16/2019							0.02	0.027	
10/17/2019				0.018	0.019				0.015
10/18/2019	0.032	0.019				0.014			
3/2/2020			0.036				0.018		
3/3/2020	0.035							0.026	0.016
3/4/2020		0.032		0.015	0.017	0.014			
8/11/2020									0.016
8/12/2020			0.036		0.016		0.017	0.034	
8/13/2020		0.027		0.027		0.013			
8/14/2020	0.035								
9/22/2020			0.03	0.016			0.017		0.015
9/23/2020					0.014	0.013		0.025	
9/24/2020	0.031	0.02							
3/1/2021			0.039						
3/2/2021							0.017	0.029	0.017
3/3/2021	0.031	0.019		0.015	0.02	0.014			
9/9/2021		0.021							
9/10/2021	0.027		0.032		0.021	0.013	0.015		0.014
9/13/2021				0.014				0.019	
1/20/2022	0.029	0.024		0.014					

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.017				
1/24/2022			0.035			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	
9/16/2022	0.029								
9/19/2022			0.032						0.017
9/20/2022		0.019							
2/1/2023				0.015					
2/3/2023			0.034		0.019	0.013			0.019
2/6/2023	0.027	0.023							
2/7/2023							0.019	0.025	
9/11/2023	0.029	0.022							
9/12/2023					0.023			0.021	
9/13/2023			0.034	0.015		0.015	0.016		
9/14/2023									

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.058

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0004 (J)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.00085
9/9/2021									
9/10/2021			0.0011						
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005			
9/14/2021				0.0011			<0.0005	<0.0005	0.00087
1/20/2022									0.0011
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									0.0011
2/2/2023	<0.0005		0.00091						
2/3/2023		6.3E-05 (J)		0.0016					0.001
2/6/2023						<0.0005			
2/7/2023					8.4E-05 (J)		<0.0005	<0.0005	
9/6/2023	0.00054								
9/7/2023									
9/8/2023		<0.0005							
9/11/2023			0.00074		6.6E-05 (J)				
9/12/2023						<0.0005			0.00066
9/13/2023				0.0016			<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0025
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/25/2020			
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0025
4/15/2021			
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021			
1/20/2022			0.00015 (J)
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			0.00013 (J)
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0013	
9/19/2022			
2/2/2023			0.00012 (J)
2/3/2023			
2/6/2023	0.00034 (J)		
2/7/2023		0.0012	
9/6/2023			
9/7/2023	0.00049 (J)		0.00011 (J)
9/8/2023		0.0013	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018	0.00049 (J)	<0.0005							
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.003								
1/30/2019		<0.0005							
8/27/2019									
8/28/2019									
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.003
2/27/2020									0.0019 (J)
3/2/2020									
3/9/2020									
8/11/2020									
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	
9/22/2020									
9/24/2020			5.3E-05 (J)						
9/25/2020					0.00028 (J)	0.00063 (J)			
9/28/2020				0.0015 (J)				0.015	
3/1/2021									
3/4/2021			5.7E-05 (J)		0.00037 (J)				
3/5/2021						0.005			
3/9/2021							0.017	0.017	0.0019
3/12/2021									
3/15/2021									
9/9/2021									
9/13/2021						0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				
1/18/2022									
1/20/2022	0.00034 (J)		<0.0005						
1/21/2022					0.00039 (J)				
1/25/2022		<0.0005		0.0021					
1/26/2022							0.018	0.017	0.0017
1/27/2022						0.0019			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.017	0.017	
9/13/2022			0.00013 (J)		0.00044 (J)				0.0017
9/14/2022	0.00053								
9/16/2022		<0.0005		0.002		0.0013			
1/31/2023							0.017	0.016	
2/1/2023									0.0017
2/2/2023	0.00028 (J)								
2/3/2023					0.00038 (J)				
2/6/2023			<0.0005						
2/7/2023		<0.0005		0.0018		0.0016			
9/6/2023							0.013	0.014	0.0016
9/7/2023	0.0005 (J)								
9/11/2023		<0.0005		0.0017					
9/12/2023			<0.0005		0.00038 (J)	0.0014			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
10/7/2016			
11/22/2016			
3/28/2017		<0.0005	<0.003
5/11/2017		<0.0005	
5/15/2017			<0.003
6/15/2017		<0.0005	<0.003
7/11/2017			<0.003
7/12/2017		<0.0005	
8/8/2017			<0.003
10/24/2017		<0.0005	<0.003
2/19/2018			
2/27/2018			<0.003
3/8/2018		<0.0005	
7/12/2018		<0.0005	
11/6/2018			0.00012 (J)
11/7/2018		<0.0005	
1/28/2019			
1/30/2019			
8/27/2019			7.9E-05 (J)
8/28/2019		<0.0005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.003
10/16/2019		<0.0005	
10/21/2019			
10/22/2019			
10/24/2019			
12/18/2019			
12/19/2019			
2/17/2020	<0.0005		
2/27/2020	<0.0005		
3/2/2020			9.6E-05 (J)
3/9/2020		<0.0005	
8/11/2020			0.00013 (J)
8/13/2020		<0.0005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0005	6.8E-05 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.00012 (J)
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0005	
3/15/2021	<0.0005		
9/9/2021		<0.0005	8.9E-05 (J)
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/14/2021			
9/15/2021	0.00087		
9/16/2021			
1/18/2022			9.2E-05 (J)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.8E-05 (J)		
1/27/2022			
1/28/2022		<0.0005	
9/7/2022			8.4E-05 (J)
9/8/2022		<0.0005	
9/12/2022			
9/13/2022	6.2E-05 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.0005		9.4E-05 (J)
2/1/2023		0.00016 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.0005		0.00012 (J)
9/7/2023		<0.0005	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0046	<0.003			<0.0005			
9/1/2016				0.0002 (J)					0.0019 (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		0.0021 (J)
12/8/2016								0.0005 (J)	
3/28/2017	9E-05 (J)								
3/29/2017		0.0048	<0.003	0.0002 (J)		<0.0005			0.0017 (J)
3/30/2017					7E-05 (J)		<0.0005	0.0006 (J)	
5/11/2017									
5/12/2017	<0.003								
6/15/2017									
6/16/2017	0.0001 (J)								
7/11/2017	<0.003								
7/12/2017		0.0046	<0.003	0.0002 (J)	<0.003	<0.0005	<0.0005	0.0005 (J)	0.0018 (J)
10/24/2017	<0.003	0.0048	<0.003						
10/25/2017				0.0002 (J)		<0.0005	<0.0005	0.0005 (J)	0.0019 (J)
11/15/2017					<0.003				
2/27/2018	<0.003	0.0106	<0.003	<0.0005		<0.0005			
2/28/2018					<0.003		<0.0005	<0.003	<0.003
7/10/2018	0.0009 (J)								
7/11/2018				0.0002 (J)		<0.0005	<0.0005	0.00058 (J)	0.002 (J)
11/6/2018	0.00013 (J)	0.012	<0.003 (J)						
11/7/2018				<0.003 (J)	<0.003 (J)	<0.0005	<0.003 (J)	<0.003	<0.003 (J)
8/27/2019	<0.003	0.0092	0.00014 (J)	0.00028 (J)		<0.0005		0.00066 (J)	
8/28/2019					<0.003		<0.0005		0.0018 (J)
8/29/2019									
9/17/2019				0.00049 (J)					
10/15/2019	8.8E-05 (J)	0.01	0.00012 (J)	0.00016 (J)					
10/16/2019					<0.003	<0.0005			0.0017 (J)
10/17/2019							<0.0005		
10/18/2019								0.00071 (J)	
3/2/2020	0.0001 (J)		0.00016 (J)	7.4E-05 (J)					
3/3/2020		0.0085			<0.003	<0.0005	<0.0005		0.0021 (J)
3/4/2020								0.00062 (J)	
8/11/2020	0.00011 (J)	0.0066	0.00011 (J)	0.00024 (J)		<0.0005			0.002 (J)
8/12/2020					7.8E-05 (J)				
8/13/2020							0.00022 (J)		
8/14/2020								0.00064 (J)	
9/22/2020	6.9E-05 (J)		0.00015 (J)	0.00017 (J)		<0.0005			0.002 (J)
9/23/2020					6.8E-05 (J)		5.8E-05 (J)		
9/24/2020		0.0077						0.0006 (J)	
3/1/2021	0.00011 (J)								
3/2/2021			0.00014 (J)		7.3E-05 (J)	<0.0005	<0.0005		0.0019
3/3/2021				0.00011 (J)				0.00056	
3/4/2021		0.0086							
9/8/2021	9.1E-05 (J)								
9/9/2021			0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	<0.0005		0.0022
9/10/2021		0.0074							
9/13/2021								0.00052	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	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			0.0019
1/26/2022		0.0091							
9/7/2022	7.5E-05 (J)								
9/13/2022						<0.0005	<0.0005		
9/14/2022								0.00058	0.0018
9/15/2022		0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)				
9/20/2022									
1/31/2023	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	0.0017
2/7/2023									
9/6/2023	0.00011 (J)								
9/8/2023			0.0002 (J)		8.7E-05 (J)	<0.0005	<0.0005		0.0015
9/11/2023		0.0065		7.7E-05 (J)					
9/13/2023								0.00057	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0026 (J)	0.0001 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0035	
12/8/2016			0.0001 (J)
3/28/2017			
3/29/2017		0.0026 (J)	
3/30/2017	<0.0005		0.0002 (J)
5/11/2017	<0.0005		
5/12/2017			
6/15/2017	<0.0005		
6/16/2017			
7/11/2017	<0.0005		
7/12/2017		0.0025 (J)	0.0001 (J)
10/24/2017	<0.0005		
10/25/2017		0.0027 (J)	0.0002 (J)
11/15/2017			
2/27/2018	<0.0005		
2/28/2018		<0.003	<0.003
7/10/2018			
7/11/2018	<0.0005	0.0026 (J)	0.00016 (J)
11/6/2018	<0.0005		
11/7/2018		<0.003 (J)	<0.003 (J)
8/27/2019	<0.0005		
8/28/2019			
8/29/2019		0.005	0.00018 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.0005	0.0041	0.00015 (J)
10/18/2019			
3/2/2020			
3/3/2020	<0.0005		0.00019 (J)
3/4/2020		0.0089	
8/11/2020	<0.0005		
8/12/2020			
8/13/2020		0.0063	
8/14/2020			0.0002 (J)
9/22/2020		0.0027 (J)	
9/23/2020	<0.0005		
9/24/2020			0.00018 (J)
3/1/2021			
3/2/2021	<0.0005	0.0057	
3/3/2021			0.00017 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.0005		0.00018 (J)
9/10/2021		0.0024	
9/13/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0005		0.00019 (J)
1/21/2022		0.007	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0056	0.00018 (J)
9/20/2022	<0.0005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0005		
2/7/2023		0.0073	0.00016 (J)
9/6/2023			
9/8/2023			
9/11/2023		0.0067	0.00016 (J)
9/13/2023	<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.0002 (J)								
9/7/2016				0.0021 (J)					
12/6/2016							0.0064	0.0034	0.005
12/8/2016	0.0001 (J)			0.0023 (J)	0.0116	0.0086			
3/28/2017			0.0002 (J)				0.0049		0.0052
3/29/2017	0.0002 (J)							0.0031	
3/30/2017		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)	0.0048
7/12/2017		0.0004 (J)							
7/13/2017	0.0002 (J)			0.0025 (J)	0.0098	0.0106			
10/24/2017			0.0002 (J)					0.0042	0.0051
10/25/2017	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	0.0057
2/28/2018	<0.003			<0.003					
3/1/2018		<0.003			0.0146				
3/2/2018						0.0096			
7/11/2018				0.0029 (J)					0.0058
7/12/2018	0.00018 (J)	0.00035 (J)			0.013	0.0086			
11/6/2018			<0.003 (J)				0.01	<0.003 (J)	0.006
11/7/2018	<0.003 (J)			0.0031	0.014	0.0078			
11/8/2018		<0.003 (J)							
8/27/2019			0.00024 (J)				0.01		0.007
8/28/2019				0.0023 (J)				0.0021 (J)	
8/29/2019	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				0.0027 (J)	0.0093				0.0063
10/18/2019	0.00014 (J)	0.00038 (J)				0.0099			
3/2/2020			0.00025 (J)				0.0098		
3/3/2020	0.00017 (J)							0.0018 (J)	0.0048
3/4/2020		0.00077 (J)		0.0029 (J)	0.01	0.008			
8/11/2020									0.0062
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	0.00016 (J)								
9/22/2020			0.00019 (J)	0.0013 (J)			0.0081		0.0049
9/23/2020					0.0069	0.0072		0.0015 (J)	
9/24/2020	0.00017 (J)	0.00045 (J)							
3/1/2021			0.00027 (J)						
3/2/2021							0.0063	0.0012	0.005
3/3/2021	0.00013 (J)	0.0005		0.0023	0.0081	0.0068			
9/9/2021		0.0005 (J)							
9/10/2021	0.00014 (J)		0.00028 (J)		0.009	0.007	0.0075		0.0049
9/13/2021				0.0024				0.0015	
1/20/2022	0.00014 (J)	0.00046 (J)		0.002					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.01				
1/24/2022			0.00033 (J)			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	
9/16/2022	0.00023 (J)								
9/19/2022			0.00034 (J)						0.0047
9/20/2022		0.00037 (J)							
2/1/2023				0.0022					
2/3/2023			0.00033 (J)		0.0087	0.0062			0.0046
2/6/2023	0.0001 (J)	0.00038 (J)							
2/7/2023							0.0083	0.0007	
9/11/2023	0.00012 (J)	0.00035 (J)							
9/12/2023					0.0081			0.0014	
9/13/2023			0.0004 (J)	0.0024		0.0065	0.0084		
9/14/2023									

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.00013 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									1.9
9/9/2021									
9/10/2021			2.5						
9/13/2021	0.24	1.6			1.3	10.7			
9/14/2021				0.23			6.8	0.32	1.7
1/20/2022									1.9
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									1.7
2/2/2023	1.6		2.2						
2/3/2023		1.1		0.26					1.5
2/6/2023						10			
2/7/2023					0.95		6.4	0.16	
9/6/2023	0.24								
9/7/2023									
9/8/2023		1.3							
9/11/2023			1.8		0.81				
9/12/2023						11.3			1
9/13/2023				0.26			6.4	0.23	

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/25/2020			
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/15/2021			
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021			
1/20/2022			0.077
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			0.064
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		1.6	
9/19/2022			
2/2/2023			0.064
2/3/2023			
2/6/2023	0.26		
2/7/2023		1.5	
9/6/2023			
9/7/2023	0.26		0.071
9/8/2023		1.5	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.44								
1/30/2019		2							
3/12/2019									
3/13/2019									
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/15/2019									
10/16/2019									
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/1/2021									
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
3/12/2021									
9/9/2021									
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				
1/18/2022									
1/20/2022	0.21		0.28						
1/21/2022					0.32				
1/25/2022		2.3		0.7					
1/26/2022							2.7	3.6	3.7
1/27/2022						2.7			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							2.9	3.6	
9/13/2022			0.33		0.33				3.7
9/14/2022	0.38								
9/16/2022		2.2		0.61		2.1			
1/31/2023							2.6	3.3	
2/1/2023									3.7
2/2/2023	0.47								
2/3/2023					0.31				
2/6/2023			0.31						
2/7/2023		2.1		0.53		2.3			
9/6/2023							3.2	3	3.7
9/7/2023	0.34								
9/11/2023		2.1		0.38					
9/12/2023			0.26		0.29	1.9			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
11/22/2016			
3/28/2017		0.0612	0.0067 (J)
5/11/2017		0.0805	
5/15/2017			0.0073 (J)
6/15/2017		0.0725	<0.04
7/11/2017			<0.04
7/12/2017		0.0735	
8/8/2017			<0.04
10/24/2017		0.077	0.0082 (J)
2/27/2018			0.0062 (J)
3/8/2018		0.13 (J)	
7/12/2018		0.076	
11/6/2018			<0.04 (J)
11/7/2018		0.073	
1/28/2019			
1/30/2019			
3/12/2019			0.0073 (J)
3/13/2019		0.08	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.04
10/16/2019		0.059	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
3/2/2020			0.0055 (J)
3/9/2020		0.08 (J)	
9/22/2020		0.056 (J)	<0.04
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.04
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.064	
9/9/2021		0.065	<0.04
9/13/2021			
9/14/2021			
9/15/2021	2.6		
9/16/2021			
1/18/2022			0.024 (J)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.12		
1/27/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/28/2022		0.062	
9/7/2022			<0.04
9/8/2022		0.054	
9/12/2022			
9/13/2022	0.62		
9/14/2022			
9/16/2022			
1/31/2023	0.083		0.011 (J)
2/1/2023		0.051	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.3		0.012 (J)
9/7/2023		0.052	
9/11/2023			
9/12/2023			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		3.5	0.914			0.0419 (J)			
9/1/2016				7.64					3.08
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		3.34
12/8/2016								0.688	
3/28/2017	0.0097 (J)								
3/29/2017		4.3	1.07	8.46		0.103			3.96
3/30/2017					0.898		1.5	0.743	
5/11/2017									
5/12/2017	0.0082 (J)								
6/15/2017									
6/16/2017	0.0085 (J)								
7/11/2017	0.0077 (J)								
7/12/2017		3.38	1.14	7.55	0.996	0.044	1.49	0.62	2.82
10/24/2017	0.0083 (J)	3.45	1.18						
10/25/2017				9.97		0.0565	1.47	0.739	3.19
11/15/2017					0.795				
2/27/2018	0.0069 (J)	3.23	1.17	8.03		0.0539			
2/28/2018					0.106		1.58	0.627	2.91
7/11/2018				10.2		0.057	1.4	0.79	3.7
11/6/2018	<0.04 (J)	2.1	1.2						
11/7/2018				7.7	0.76	0.055	0.8	1.6	2.6
3/12/2019	0.0068 (J)	0.98	1.2	4.8					
3/13/2019					0.62	0.047		0.76	2.6
3/14/2019							1.6		
9/17/2019				6.9					
10/15/2019	0.0054 (J)	1.6	1.2	5.9					
10/16/2019					0.65	0.052			2.2
10/17/2019							1.5		
10/18/2019								0.82	
3/2/2020	0.01 (J)		1.6	3.3					
3/3/2020		1.5			0.61	0.15	1.7		3.1
3/4/2020								0.85	
9/22/2020	<0.04		1.3	4.2		0.086 (J)			2.6
9/23/2020					0.57		1.6		
9/24/2020		0.45						0.88	
3/1/2021	0.0054 (J)								
3/2/2021			1.3		0.58	0.089	1.4		2.3
3/3/2021				3.6				0.71	
3/4/2021		0.65							
9/8/2021	<0.04								
9/9/2021			1.5	2	0.62	0.08	1.6		2.7
9/10/2021		0.24							
9/13/2021								0.78	
1/18/2022	0.015 (J)								
1/20/2022									
1/21/2022									
1/24/2022							1.4	0.9	
1/25/2022			1.7	0.7	0.69	0.097			2.5

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		0.4							
9/7/2022	<0.04								
9/13/2022						0.091	1.5		
9/14/2022								0.87	2.4
9/15/2022		0.42	1.7	3.3	0.69				
9/20/2022									
1/31/2023	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	2.2
2/7/2023									
9/6/2023	0.015 (J)								
9/8/2023			1.7		0.55	0.11	1.4		2.2
9/11/2023		0.28		0.46					
9/13/2023								1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		6.77	4.81
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		6.04	
12/8/2016			3.57
3/28/2017			
3/29/2017		8.23	
3/30/2017	1.56		5.68
5/11/2017	1.65		
5/12/2017			
6/15/2017	1.44		
6/16/2017			
7/11/2017	1.39		
7/12/2017		6.81	5.2
10/24/2017	1.18		
10/25/2017		8.94	7.92
11/15/2017			
2/27/2018	1.12		
2/28/2018		6.26	5.89
7/11/2018	0.82	5.7	8.3
11/6/2018	0.9		
11/7/2018		5	4.9
3/12/2019	0.72		
3/13/2019		5.6	6.2
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.73	5	7
10/18/2019			
3/2/2020			
3/3/2020	0.68		6.8
3/4/2020		3.6	
9/22/2020		4.9	
9/23/2020	0.57		
9/24/2020			6.1
3/1/2021			
3/2/2021	0.52	3.4	
3/3/2021			5.3
3/4/2021			
9/8/2021			
9/9/2021	0.51		5.8
9/10/2021		4.8	
9/13/2021			
1/18/2022			
1/20/2022	0.5		6.9
1/21/2022		3.6	
1/24/2022			
1/25/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		4.2	6.7
9/20/2022	0.42		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.38		
2/7/2023		3	5.6
9/6/2023			
9/8/2023			
9/11/2023		2.5	7.1
9/13/2023	0.38		

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								2.63	1.72
8/31/2016							7.5		
9/1/2016					0.345	0.955			
9/2/2016	3.99								
9/7/2016				0.924					
12/6/2016							5.64	2.72	1.92
12/8/2016	3.1			0.957	0.352	0.919			
3/28/2017			4.01				6.16		2.01
3/29/2017	4.85							3.04	
3/30/2017		4.68				0.925			
3/31/2017				0.989	0.312				
5/12/2017		4.03	3.58						
6/15/2017		4.11	3.58						
7/11/2017			3.85				4.61	2.55	1.78
7/12/2017		3.74							
7/13/2017	3.85			1.03	0.28	0.972			
10/24/2017			3.82					2.29	1.72
10/25/2017	3.9			0.982			4		
10/26/2017		4.07			0.269	0.746			
2/27/2018			4.06				4.29	2.07	1.68
2/28/2018	5.14			0.918					
3/1/2018		4.37			0.296				
3/2/2018						0.878			
7/11/2018				0.83					1.4
7/12/2018	3.6	4			0.26	0.82			
11/6/2018			4.1				4.2	1.7	1.4
11/7/2018	3.3			0.89	0.3	0.74			
11/8/2018		4.7							
3/12/2019			4.6				4.3	1.5	1.2
3/14/2019	4.1	4.7		0.89	0.26	0.72			
10/15/2019			5						
10/16/2019							4.3	1.2	
10/17/2019				0.94	0.25				1.2
10/18/2019	4.2	4.5				0.74			
3/2/2020			5.9				5.5		
3/3/2020	4.6							1.5	1.1
3/4/2020		4.8		1	0.24	0.77			
9/22/2020			4.3	0.88			4.6		0.78
9/23/2020					0.21	0.65		1	
9/24/2020	4.1	4.6							
3/1/2021			4.7						
3/2/2021							4.3	0.96	0.77
3/3/2021	3.9	4		0.87	0.17	0.57			
9/9/2021		4.7							
9/10/2021	4.5		5		0.16	0.55	4.7		0.54
9/13/2021				0.95				0.86	
1/20/2022	4.2	4.5		0.83					
1/21/2022					0.17				
1/24/2022			5.1			0.61	4.4		
1/25/2022								0.98	
1/26/2022									0.69
9/13/2022				1.1	0.18	0.61			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/14/2022							5		
9/15/2022								0.83	
9/16/2022	4.2								
9/19/2022			4.8						0.8
9/20/2022		4.6							
2/1/2023				0.94					
2/3/2023			4.5		0.16	0.59			0.61
2/6/2023	3.8	4.4							
2/7/2023							3.5	0.74	
3/21/2023									
4/10/2023									
9/11/2023	3.9	4.4							
9/12/2023					0.1			0.75	
9/13/2023			5.1	1.1		0.57	2.8		
9/14/2023									

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	

Time Series

Constituent: Boron (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	1.1
4/10/2023	1
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	1.1

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.00059 (J)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.001
9/9/2021									
9/10/2021			0.00083						
9/13/2021	0.00029 (J)	<0.0005			0.00024 (J)	<0.0005			
9/14/2021				<0.0005			<0.0005	<0.0005	0.0011
1/20/2022									0.00098
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									0.0012
2/2/2023	<0.0005		0.00087						
2/3/2023		<0.0005		<0.0005					0.0011
2/6/2023						<0.0005			
2/7/2023					<0.0005		<0.0005	<0.0005	
9/6/2023	0.00035 (J)								
9/7/2023									
9/8/2023		<0.0005							
9/11/2023			0.00072		<0.0005				
9/12/2023						<0.0005			0.001
9/13/2023				<0.0005			<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/25/2020			
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/15/2021			
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021			
1/20/2022			<0.0005
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			<0.0005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0003 (J)	
9/19/2022			
2/2/2023			<0.0005
2/3/2023			
2/6/2023	<0.0005		
2/7/2023		0.00036 (J)	
9/6/2023			
9/7/2023	<0.0005		<0.0005
9/8/2023		0.00034 (J)	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.0005								
1/30/2019		<0.0005							
8/27/2019									
8/28/2019									
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/22/2020									
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/1/2021									
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				
1/18/2022									
1/20/2022	<0.0005		<0.0005						
1/21/2022					0.0003 (J)				
1/25/2022		<0.0005		0.00072					
1/26/2022							0.001	0.00079	0.00055

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						0.0036			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.0014	0.00084	
9/13/2022			<0.0005		0.00031 (J)				0.00055
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									0.00063
2/2/2023	<0.0005								
2/3/2023					0.0003 (J)				
2/6/2023			<0.0005						
2/7/2023		<0.0005		0.00081		0.0033			
9/6/2023							0.0008	0.001	0.00059
9/7/2023	0.00028 (J)								
9/11/2023		0.00018 (J)		0.00058					
9/12/2023			<0.0005		0.00027 (J)	0.0026			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.0005	<0.0005
5/11/2017		8E-05 (J)	
5/15/2017			<0.0005
6/15/2017		<0.0005	<0.0005
7/11/2017			<0.0005
7/12/2017		<0.0005	
8/8/2017			<0.0005
10/24/2017		<0.0005	<0.0005
2/27/2018			<0.0005
3/8/2018		<0.0005	
7/12/2018		0.00013 (J)	
11/6/2018			<0.0005
11/7/2018		<0.0005	
1/28/2019			
1/30/2019			
8/27/2019			<0.0005
8/28/2019		<0.0005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0005
10/16/2019		<0.0005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.00041 (J)
3/9/2020		<0.0005	
8/11/2020			<0.0005
8/13/2020		<0.0005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0005	<0.0005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.0005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0005	
9/9/2021		<0.0005	<0.0005
9/13/2021			
9/14/2021			
9/15/2021	0.0003 (J)		
9/16/2021			
1/18/2022			<0.0005
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.0005		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		<0.0005	
9/7/2022			<0.0005
9/8/2022		<0.0005	
9/12/2022			
9/13/2022	0.00031 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.0005		<0.0005
2/1/2023		0.00019 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00015 (J)		<0.0005
9/7/2023		<0.0005	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0012	<0.0005			<0.0005			
9/1/2016				0.0004 (J)					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)		0.0004 (J)
12/8/2016								0.0003 (J)	
3/28/2017	<0.0005								
3/29/2017		0.0013	<0.0005	0.0003 (J)		<0.0005			0.0004 (J)
3/30/2017					8E-05 (J)		9E-05 (J)	0.0003 (J)	
5/11/2017									
5/12/2017	<0.0005								
6/15/2017									
6/16/2017	<0.0005								
7/11/2017	<0.0005								
7/12/2017		0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005	0.0002 (J)	0.0004 (J)
10/24/2017	<0.0005	0.0014	<0.0005						
10/25/2017				0.0004 (J)		<0.0005	<0.0005	0.0002 (J)	0.0004 (J)
11/15/2017					<0.0005				
2/27/2018	<0.0005	0.001	<0.0005	<0.0005		<0.0005			
2/28/2018					<0.0005		<0.0005	<0.001	<0.001
7/11/2018				0.00033 (J)		<0.0005	<0.0005	0.00029 (J)	0.00039 (J)
11/6/2018	<0.0005	0.0012	<0.0005						
11/7/2018				<0.001 (J)	<0.0005	<0.0005	<0.001 (J)	<0.001	<0.001 (J)
8/27/2019	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005		0.00033 (J)	
8/28/2019					<0.0005		<0.0005		0.00033 (J)
8/29/2019									
9/17/2019				0.00035 (J)					
10/15/2019	<0.0005	0.00095 (J)	<0.0005	0.00025 (J)					
10/16/2019					<0.0005	<0.0005			0.00034 (J)
10/17/2019							<0.0005		
10/18/2019								0.00029 (J)	
3/2/2020	<0.0005		<0.0005	<0.0005					
3/3/2020		0.00095 (J)			<0.0005	<0.0005	0.00012 (J)		0.00037 (J)
3/4/2020								0.00028 (J)	
8/11/2020	<0.0005	0.00071 (J)	<0.0005	0.00038 (J)		<0.0005			0.0003 (J)
8/12/2020					<0.0005				
8/13/2020							0.00013 (J)		
8/14/2020								0.00029 (J)	
9/22/2020	<0.0005		0.00016 (J)	0.00017 (J)		<0.0005			0.00036 (J)
9/23/2020					<0.0005		<0.0005		
9/24/2020		0.00055 (J)						0.00024 (J)	
3/1/2021	<0.0005								
3/2/2021			0.00013 (J)		<0.0005	<0.0005	<0.0005		0.00035 (J)
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		0.00037 (J)
9/10/2021		0.00061							
9/13/2021								0.00023 (J)	
1/18/2022	<0.0005								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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			0.00041 (J)
1/26/2022		0.0007							
9/7/2022	<0.0005								
9/13/2022						<0.0005	<0.0005		
9/14/2022								0.00024 (J)	0.00032 (J)
9/15/2022		0.00047 (J)	<0.0005	0.00017 (J)	<0.0005				
9/20/2022									
1/31/2023	<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)	0.00029 (J)
2/7/2023									
9/6/2023	<0.0005								
9/8/2023			0.00014 (J)		<0.0005	<0.0005	<0.0005		0.00034 (J)
9/11/2023		0.0006		<0.0005					
9/13/2023								0.00019 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0023	0.0006 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0023	
12/8/2016			0.0006 (J)
3/28/2017			
3/29/2017		0.0021	
3/30/2017	0.0005 (J)		0.0008 (J)
5/11/2017	0.0004 (J)		
5/12/2017			
6/15/2017	0.0003 (J)		
6/16/2017			
7/11/2017	0.0003 (J)		
7/12/2017		0.0021	0.0006 (J)
10/24/2017	0.0003 (J)		
10/25/2017		0.002	0.0005 (J)
11/15/2017			
2/27/2018	<0.0005		
2/28/2018		0.0018	<0.0005
7/11/2018	0.00018 (J)	0.0018	0.00054 (J)
11/6/2018	<0.001 (J)		
11/7/2018		0.0018	<0.001 (J)
8/27/2019	0.00012 (J)		
8/28/2019			
8/29/2019		0.002 (J)	0.00087 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.00013 (J)	0.0017 (J)	0.0006 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.00014 (J)		0.00063 (J)
3/4/2020		0.0026	
8/11/2020	<0.0005		
8/12/2020			
8/13/2020		0.0021 (J)	
8/14/2020			0.00054 (J)
9/22/2020		0.0014 (J)	
9/23/2020	0.00013 (J)		
9/24/2020			0.00073 (J)
3/1/2021			
3/2/2021	<0.0005	0.0025	
3/3/2021			0.00044 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.0005		0.00012 (J)
9/10/2021		0.0012	
9/13/2021			
1/18/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	<0.0005		<0.0005
1/21/2022		0.0028	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0021	0.00029 (J)
9/20/2022	<0.0005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0005		
2/7/2023		0.0027	0.00059
9/6/2023			
9/8/2023			
9/11/2023		0.0038	0.00054
9/13/2023	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0019	0.0004 (J)
8/31/2016							0.0002 (J)		
9/1/2016					0.0017	0.0013			
9/2/2016	0.0003 (J)								
9/7/2016				0.0007 (J)					
12/6/2016							0.0004 (J)	0.0025	0.0005 (J)
12/8/2016	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042			
3/28/2017			0.0006 (J)				0.0002 (J)		0.0005 (J)
3/29/2017	0.0004 (J)							0.0024	
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)				0.0003 (J)	0.0021	0.0005 (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)					0.0029	0.0006 (J)
10/25/2017	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	<0.001
2/28/2018	<0.001			<0.001					
3/1/2018		<0.0005			0.0025				
3/2/2018						0.0049			
7/11/2018				0.0024					0.00067 (J)
7/12/2018	0.00091 (J)	0.00028 (J)			0.0021	0.0032			
11/6/2018			<0.001 (J)				<0.001 (J)	0.0027	<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)				0.00082 (J)		0.00071 (J)
8/28/2019				0.0015 (J)				0.0022 (J)	
8/29/2019	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				0.00058 (J)	0.0033				0.00064 (J)
10/18/2019	0.00056 (J)	0.00022 (J)				0.0028			
3/2/2020			0.00088 (J)				0.00089 (J)		
3/3/2020	0.00061 (J)							0.002 (J)	0.00059 (J)
3/4/2020		0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036			
8/11/2020									0.00059 (J)
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	0.00057 (J)								
9/22/2020			0.00065 (J)	0.0007 (J)			0.00072 (J)		0.00059 (J)
9/23/2020					0.0013 (J)	0.0025		0.0018 (J)	
9/24/2020	0.00058 (J)	0.00018 (J)							
3/1/2021			0.00085						
3/2/2021							0.00075	0.0017	0.00057
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	0.00093		0.00053
9/13/2021				0.00042 (J)				0.002	
1/20/2022	0.00052	0.00012 (J)		0.00038 (J)					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0019				
1/24/2022			0.00098			0.0029	0.00094		
1/25/2022								0.0016	
1/26/2022									0.00059
9/13/2022				0.00069	0.0011	0.0026			
9/14/2022							0.00087		
9/15/2022								0.0011	
9/16/2022	0.00065								
9/19/2022			0.00091						0.00076
9/20/2022		0.00017 (J)							
2/1/2023				0.00075					
2/3/2023			0.001		0.0013	0.0024			0.00053
2/6/2023	0.00045 (J)	0.00021 (J)							
2/7/2023							0.0012	0.00087	
9/11/2023	0.0006	<0.0005							
9/12/2023					0.00083			0.0015	
9/13/2023			0.00099	0.00068		0.0026	0.0013		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									171
9/9/2021									
9/10/2021			84.7						
9/13/2021	51.5	53.6			42.1	83.6			
9/14/2021				151			83.3	98.4	162
1/20/2022									158
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									142
2/2/2023	46.9		68						
2/3/2023		41.8		142					121
2/6/2023						76			
2/7/2023					30.7		83.1	91.5	
9/6/2023	49.9								
9/7/2023									
9/8/2023		96.6							
9/11/2023			71.9		35.3				
9/12/2023						80.8			110
9/13/2023				152			83.9	93.4	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/25/2020			
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/15/2021			
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021			
1/20/2022			36.3
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			31.4
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		18.4	
9/19/2022			
2/2/2023			32.4
2/3/2023			
2/6/2023	47.3		
2/7/2023		20.1	
9/6/2023			
9/7/2023	52.3		35.1
9/8/2023		19.8	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<25								
1/30/2019		62.4							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/1/2021									
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
3/12/2021									
9/9/2021									
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				
1/18/2022									
1/20/2022	22.9		18.6						
1/21/2022					40.8				
1/25/2022		54.9		36.4					
1/26/2022							96	141	198
1/27/2022						105			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							104	133	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/13/2022			15.7		36.2				201
9/14/2022	26.3								
9/16/2022		63.9		34.3		97.6			
1/31/2023							95	123	
2/1/2023									192
2/2/2023	21.2								
2/3/2023					31.4				
2/6/2023			14.8						
2/7/2023		45.3		37		92.4			
9/6/2023							158	148	220
9/7/2023	23.7								
9/11/2023		46.7		52.3					
9/12/2023			19.2		32.4	102			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		30.8	5.14
5/11/2017		35.8	
5/15/2017			6.5
6/15/2017		36	5.38
7/11/2017			5.96
7/12/2017		40.3	
8/8/2017			5.2
10/24/2017		30.3	4.93
2/27/2018			<25
3/8/2018		39.8	
7/12/2018		34.7	
11/6/2018			5.5
11/7/2018		28.6	
1/28/2019			
1/30/2019			
3/12/2019			5.1
3/13/2019		26.7	
10/15/2019			5.1
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	85.9		
3/2/2020			5.3
3/9/2020		23.7	
9/22/2020		15.5	5
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			4.1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		18.4	
9/9/2021		18.3	5.3
9/13/2021			
9/14/2021			
9/15/2021	105		
9/16/2021			
1/18/2022			6.1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	31.9		
1/27/2022			
1/28/2022		19.5	
9/7/2022			5.9
9/8/2022		17.2	
9/12/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/13/2022	63.3		
9/14/2022			
9/16/2022			
1/31/2023	40.6		6.2
2/1/2023		14.1	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	43.2		6.6
9/7/2023		16.3	
9/11/2023			
9/12/2023			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		81.7	44.2			9.95			
9/1/2016				80.6					65.6
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		68.3
12/8/2016								7.92	
3/28/2017	8.31								
3/29/2017		79.5	50.5	88.3		14.4			68
3/30/2017					46.3		36.9	9.56	
5/11/2017									
5/12/2017	8.04								
6/15/2017									
6/16/2017	7.66								
7/11/2017	7.71								
7/12/2017		86.3	50.8	87	47.8	10.5	38.4	10.4	70
10/24/2017	6.86	81.5	55						
10/25/2017				92.1		9.67	36.2	10.9	77
11/15/2017					49.3				
2/27/2018	<25	96.2	51.4	85.6		<25			
2/28/2018					<25		35	<25	72
7/11/2018				93.6		9.9	37.5	13 (J)	82.7
11/6/2018	5.7	94.8	62.6						
11/7/2018				73.3	44.8	9.7	11.4	37	81.7
3/12/2019	5.5	83.5	61.4	62.1					
3/13/2019					42.1	9.7		11.9 (J)	76.9
3/14/2019							34.7		
10/15/2019	5.1	79.1	61.2	61.4					
10/16/2019					43.8	9.4			85.7
10/17/2019							37		
10/18/2019								12.9	
3/2/2020	5.8		65.8	46.5					
3/3/2020		63.6			49.3	14	37.8		86.8
3/4/2020								15.8	
9/22/2020	5.4		72.7	55.4		11.6			103
9/23/2020					39		35.6		
9/24/2020		53.1						12.7	
3/1/2021	5.9								
3/2/2021			65.3		40.5	11.4	36		93.2
3/3/2021				50.1				14.3	
3/4/2021		75.8							
9/8/2021	6.1								
9/9/2021			66.8	29.2	38.2	11.1	34.4		93.6
9/10/2021		82.4							
9/13/2021								15.8	
1/18/2022	6.6								
1/20/2022									
1/21/2022									
1/24/2022							33.2	15.6	
1/25/2022			70.2	28.5	43.2	12.4			101
1/26/2022		76.8							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/7/2022	6.4								
9/13/2022						11.2	34.4		
9/14/2022								16.4	105
9/15/2022		64.4	66.6	41.5	36.7				
9/20/2022									
1/31/2023	5.7								
2/1/2023					33.6	11.9			
2/2/2023		60.8					32.2		
2/6/2023			58.8	28.3				17.5	105
2/7/2023									
9/6/2023	7								
9/8/2023			58.6		32.7	12	34.3		115
9/11/2023		72.7		30.8					
9/13/2023								19.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		96.3	70.2
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		91.9	
12/8/2016			70.1
3/28/2017			
3/29/2017		95.7	
3/30/2017	103		72.5
5/11/2017	102		
5/12/2017			
6/15/2017	96.2		
6/16/2017			
7/11/2017	98.4		
7/12/2017		100	80.4
10/24/2017	86		
10/25/2017		97.3	75.6
11/15/2017			
2/27/2018	66.7		
2/28/2018		86.3	73.2
7/11/2018	55	92.4	82.3
11/6/2018	54.5		
11/7/2018		85.9	78.5
3/12/2019	52.2		
3/13/2019		86.4	79.9
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	47.2	86.9	79.8
10/18/2019			
3/2/2020			
3/3/2020	48.4		87.4
3/4/2020		103	
9/22/2020		79.2	
9/23/2020	44.4		
9/24/2020			80
3/1/2021			
3/2/2021	44	74.7	
3/3/2021			82.1
3/4/2021			
9/8/2021			
9/9/2021	42		75.3
9/10/2021		69.8	
9/13/2021			
1/18/2022			
1/20/2022	44.6		83.7
1/21/2022		104	
1/24/2022			
1/25/2022			
1/26/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		70.1	82.2
9/20/2022	37.8		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	35.3		
2/7/2023		110	84.8
9/6/2023			
9/8/2023			
9/11/2023		114	88.4
9/13/2023	33.6		

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								82.7	64.9
8/31/2016							82.6		
9/1/2016					69.3	95.1			
9/2/2016	61.6								
9/7/2016				43.6					
12/6/2016							73.9	76.8	59.3
12/8/2016	60.1			45.8	71.1	105			
3/28/2017			229				89.1		71.6
3/29/2017	64.7							90.5	
3/30/2017		68.1				98.6			
3/31/2017				48.3	62.6				
5/12/2017		71.1	233						
6/15/2017		65.9	224						
7/11/2017			249				84.6	91.1	73.7
7/12/2017		70							
7/13/2017	67.2			52.3	52.5	102			
10/24/2017			232					78.1	92.5
10/25/2017	66.8			50.9			95.6		
10/26/2017		67.2			46.7	94			
2/27/2018			245				108	64.2	73.1
2/28/2018	62.3			45.1					
3/1/2018		66.5			44.2				
3/2/2018						86.6			
7/11/2018				47.8					88.5
7/12/2018	71	72			41.6	89.1			
11/6/2018			284				124	57	81.1
11/7/2018	60.9			45.5	38.6	88			
11/8/2018		73.5							
3/12/2019			295				110	54.3	78.1
3/14/2019	64.8	73.2		43.5	36.6	74.6			
10/15/2019			276						
10/16/2019							109	47.3	
10/17/2019				44.1	36.2				75.6
10/18/2019	61.7	67.7				72.7			
3/2/2020			320				116		
3/3/2020	68.7							46	59.5
3/4/2020		69.8		48.8	36	79.7			
9/22/2020			263	43.8			99.2		54.7
9/23/2020					22.3	72.2		39.3	
9/24/2020	62.6	73.7							
3/1/2021			322						
3/2/2021							114	35.6	48.8
3/3/2021	62.3	68.1		38.8	25.5	66			
9/9/2021		76.4							
9/10/2021	62.3		285		24.4	68.7	123		47.7
9/13/2021				38.9				36	
1/20/2022	67.3	82.7		38.1					
1/21/2022					31				
1/24/2022			299			61.2	112		
1/25/2022								36.8	
1/26/2022									48.4
9/13/2022				34.2	24.8	65.3			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/14/2022							117		
9/15/2022								29.3	
9/16/2022	66.2								
9/19/2022			376						45.1
9/20/2022		90							
2/1/2023				32.7					
2/3/2023			287		23.7	64.1			43.8
2/6/2023	56.7	86.4							
2/7/2023							139	26	
3/21/2023									
4/10/2023									
9/11/2023	61.2	95.4							
9/12/2023					21.9			30	
9/13/2023			279	33.6		55	152		
9/14/2023									

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	123
4/10/2023	139
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	140

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									6.2
9/9/2021									
9/10/2021			10.2						
9/13/2021	11.1	8.7			7	11.7			
9/14/2021				7.9			28.8	27.3	6.1
1/20/2022									6
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									5.8
2/2/2023	11.7		10.8						
2/3/2023		9.1		7.8					6.1
2/6/2023						13.6			
2/7/2023					6.8		27.6	9.9	
9/6/2023	10								
9/7/2023									
9/8/2023		9.5							
9/11/2023			10.4		7.8				
9/12/2023						14.1			6
9/13/2023				7.7			29.9	10.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/25/2020			
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/15/2021			
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021			
1/20/2022			5.6
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			5.3
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		6.9	
9/19/2022			
2/2/2023			5.8
2/3/2023			
2/6/2023	15.4		
2/7/2023		6.9	
9/6/2023			
9/7/2023	12.6		5.4
9/8/2023		6.8	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	7.9								
1/30/2019		9.3							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/1/2021									
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
3/12/2021									
9/9/2021									
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				
1/18/2022									
1/20/2022	15		5						
1/21/2022					2.4				
1/25/2022		8.7		9.9					
1/26/2022							9.4	14.7	19.8
1/27/2022						8.8			
1/28/2022									
9/7/2022									
9/8/2022									

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/12/2022							10.2	15	
9/13/2022			2.4		2.5				19.5
9/14/2022	6.5								
9/16/2022		8.4		9.4		8.7			
1/31/2023							11.4	15.7	
2/1/2023									19.4
2/2/2023	7								
2/3/2023					2.5				
2/6/2023			3.5						
2/7/2023		8.7		12.1		8.4			
9/6/2023							13.6	16.8	17.2
9/7/2023	6.8								
9/11/2023		9		11.9					
9/12/2023			4		2.4	9.1			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		3.7	3.8
5/11/2017		2.3	
5/15/2017			2.2
6/15/2017		2.6	2
7/11/2017			2.1
7/12/2017		2.3	
8/8/2017			2.2
10/24/2017		2.7	2.4
11/15/2017		2.2	
2/27/2018			2.5
3/8/2018		2.4	
7/12/2018		2.2	
11/6/2018			2.3
11/7/2018		2.3	
1/28/2019			
1/30/2019			
3/12/2019			2.5
3/13/2019		3.6	
10/15/2019			2.2
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	96.8		
3/2/2020			1.9
3/9/2020		1.8	
9/22/2020		1.6	1.9
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			1.9
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		2	
9/9/2021		1.8	1.9
9/13/2021			
9/14/2021			
9/15/2021	29.9		
9/16/2021			
1/18/2022			1.9
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	4.9		
1/27/2022			
1/28/2022		1.8	
9/7/2022			2.1
9/8/2022		1.6	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/12/2022			
9/13/2022	4.9		
9/14/2022			
9/16/2022			
1/31/2023	2.8		2.2
2/1/2023		1.9	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	3.2		2.2
9/7/2023		1.7	
9/11/2023			
9/12/2023			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		11	11			3.1			
9/1/2016				13					41
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		41
12/8/2016								19	
3/28/2017	3.6								
3/29/2017		11	12	13		3.8			42
3/30/2017					16		21	20	
5/11/2017									
5/12/2017	3.8								
6/15/2017									
6/16/2017	3.4								
7/11/2017	3.1								
7/12/2017		11	11	12	14	2.9	21	18	41
10/24/2017	3.2	11	12						
10/25/2017				13		3.5	21	19	41
11/15/2017	3.1	12			16				
2/27/2018	3.2	10.8	12.7	11.7		3.4			
2/28/2018					2.7		20.1	17	36.4
7/11/2018				11.3		3.2	21.4	19.5	38.2
11/6/2018	2.6	12.3	15.2						
11/7/2018				11.8	16.7	3.1	22.4	21.4	38.8
3/12/2019	3.3	12.1	14.5	12.1					
3/13/2019					12.4	3.4		19.9	40.1
3/14/2019							24		
10/15/2019	3.3	9.4	15.6	11.6					
10/16/2019					17.4	3.5			33.2
10/17/2019							22		
10/18/2019								22	
3/2/2020	3		15	8.9					
3/3/2020		8.4			9.4	4.1	22.7		30.9
3/4/2020								19.6	
9/22/2020	5.2		16	10.8		3.2			27.6
9/23/2020					12.6		22.4		
9/24/2020		5.9						22.7	
3/1/2021	3.9								
3/2/2021			14.4		13.1	3.5	22.8		27
3/3/2021				10.3				20.9	
3/4/2021		7.2							
9/8/2021	5.9								
9/9/2021			13.6	8.5	12.9	3.3	21.9		25.4
9/10/2021		8.2							
9/13/2021								18.2	
1/18/2022	5.9								
1/20/2022									
1/21/2022									
1/24/2022							21.5	19.2	
1/25/2022			14.1	8.1	14.3	3.7			23.7
1/26/2022		9							

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/7/2022	8.2								
9/13/2022						3.5	21.9		
9/14/2022								19	18.7
9/15/2022		8.2	12.1	8.2	13.7				
9/20/2022									
1/31/2023	7.3								
2/1/2023					12.2	4.5			
2/2/2023		9.9					22.1		
2/6/2023			12.1	6.8				18.8	17.9
2/7/2023									
9/6/2023	7.8								
9/8/2023			11.2		11.7	3.5	20		15.8
9/11/2023		10.1		6.5					
9/13/2023								18.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		15	25
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		16	
12/8/2016			24
3/28/2017			
3/29/2017		17	
3/30/2017	4.8		24
5/11/2017	4.4		
5/12/2017			
6/15/2017	4.8		
6/16/2017			
7/11/2017	4.6		
7/12/2017		18	23
10/24/2017	4.4		
10/25/2017		20	23
11/15/2017			
2/27/2018	4.1		
2/28/2018		18.6	19.9
7/11/2018	3.3	20.4	20.9
11/6/2018	3.7		
11/7/2018		21.5	20.5
3/12/2019	3.1		
3/13/2019		24.8	21.3
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	2.8	24.9	20.1
10/18/2019			
3/2/2020			
3/3/2020	2.3		19.7
3/4/2020		27.8	
9/22/2020		25.8	
9/23/2020	2.1		
9/24/2020			20
3/1/2021			
3/2/2021	2.1	28	
3/3/2021			19.7
3/4/2021			
9/8/2021			
9/9/2021	2.1		20.2
9/10/2021		26.2	
9/13/2021			
1/18/2022			
1/20/2022	2		18.6
1/21/2022		27	
1/24/2022			
1/25/2022			
1/26/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		26.2	17.6
9/20/2022	2		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	2.1		
2/7/2023		27.9	18.6
9/6/2023			
9/8/2023			
9/11/2023		26.9	17.8
9/13/2023	1.9		

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								9.7	6
8/31/2016							8.6		
9/1/2016					12	18			
9/2/2016	30								
9/7/2016				33					
12/6/2016							8	9.8	6.2
12/8/2016	26			32	12	17			
3/28/2017			29				9.5		6.6
3/29/2017	30							9.9	
3/30/2017		17				16			
3/31/2017				33	9.1				
5/12/2017		17	29						
6/15/2017		16	28						
7/11/2017			28				9	9.7	6.9
7/12/2017		16							
7/13/2017	29			33	5.7	15			
10/24/2017			28					9.9	6.7
10/25/2017	29			32			9.4		
10/26/2017		17			6.6	14			
11/15/2017			27						
2/27/2018			24.6				9.7	9.5	8.2
2/28/2018	23.4			29					
3/1/2018		14.8			10.7				
3/2/2018						12.8			
7/11/2018				29.3					10.5
7/12/2018	26.1	15.2			9.5	11.7			
11/6/2018			24.8				10.2	10.5	8.7
11/7/2018	25.8			28.6	8.6	11.4			
11/8/2018		14.6							
3/12/2019			24.2				10.6	10.7	8.5
3/14/2019	26.3	15.2		24.8	6.6	10.2			
10/15/2019			20.9						
10/16/2019							11.6	10.4	
10/17/2019				25.8	7				10
10/18/2019	23.4	14.4				9.6			
3/2/2020			18.7				10.5		
3/3/2020	21.8							9.6	6.6
3/4/2020		13.9		23.6	4.4	9.1			
9/22/2020			17	22.1			10.5		8
9/23/2020					3.3	8		9.1	
9/24/2020	21.5	13.7							
3/1/2021			15						
3/2/2021							9.8	8.6	8.4
3/3/2021	20.6	14		20.8	2.9	14.2			
9/9/2021		12.3							
9/10/2021	17.3		13.9		2.4	10.9	9.9		9
9/13/2021				17.1				8.2	
1/20/2022	18.1	12		18.2					
1/21/2022					3.1				
1/24/2022			12.5			11.3	9.9		
1/25/2022								9.3	
1/26/2022									9.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				18.7	3.3	8.9			
9/14/2022							11.2		
9/15/2022								8.3	
9/16/2022	18								
9/19/2022			11.2						13.2
9/20/2022		11.6							
2/1/2023				19.3					
2/3/2023			11		2.6	8.2			14.7
2/6/2023	16.9	12.4							
2/7/2023							10	8.7	
3/21/2023									
4/10/2023									
9/11/2023	16.8	12							
9/12/2023					2.4			9.5	
9/13/2023			9.4	18.4		6.5	9.5		
9/14/2023									

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	7.2
4/10/2023	7.4
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	5.9

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									<0.005
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	0.0014 (J)			<0.005	<0.005			
9/14/2021				<0.005			<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									<0.005
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					<0.005
2/6/2023						<0.005			
2/7/2023					0.0013 (J)		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			<0.005
9/13/2023				<0.005			<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/25/2020			
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021			
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			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.005	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		<0.005	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		<0.005	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/22/2020									
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/1/2021									
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
3/12/2021									
9/9/2021									
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				
1/18/2022									
1/20/2022	<0.005		<0.005						
1/21/2022					0.0034 (J)				
1/25/2022		<0.005		<0.005					
1/26/2022							<0.005	0.0011 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.005	<0.005	
9/13/2022			<0.005		0.0022 (J)				<0.005
9/14/2022	<0.005								
9/16/2022		<0.005		<0.005		<0.005			
1/31/2023							<0.005	<0.005	
2/1/2023									<0.005
2/2/2023	<0.005								
2/3/2023					0.0026 (J)				
2/6/2023			<0.005						
2/7/2023		<0.005		0.0013 (J)		<0.005			
9/6/2023							<0.005	<0.005	<0.005
9/7/2023	0.0013 (J)								
9/11/2023		<0.005		<0.005					
9/12/2023			<0.005		0.0022 (J)	<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.005	0.0008 (J)
5/11/2017		<0.005	
5/15/2017			0.0006 (J)
6/15/2017		<0.005	0.0006 (J)
7/11/2017			0.0005 (J)
7/12/2017		<0.005	
8/8/2017			0.0005 (J)
10/24/2017		<0.005	0.0005 (J)
2/27/2018			<0.005
3/8/2018		<0.005	
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005	
1/28/2019			
1/30/2019			
8/27/2019			0.00071 (J)
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.034 (O)
10/16/2019		<0.005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.0013 (J)
3/9/2020		<0.005	
8/11/2020			0.0016 (J)
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.005	0.00089 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005		
9/16/2021			
1/18/2022			<0.005
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0013 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		<0.005	
9/7/2022			<0.005
9/8/2022		<0.005	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	0.0014 (J)		<0.005
2/1/2023		<0.005	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.005	<0.005			<0.005			
9/1/2016				<0.005					0.0031 (J)
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		<0.01
12/8/2016								0.0025 (J)	
3/28/2017	0.0023 (J)								
3/29/2017		0.0008 (J)	<0.005	<0.005		<0.005			0.0025 (J)
3/30/2017					0.0009 (J)		0.0005 (J)	0.0026 (J)	
5/11/2017									
5/12/2017	0.0004 (J)								
6/15/2017									
6/16/2017	0.0005 (J)								
7/11/2017	<0.005								
7/12/2017		0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0023 (J)
10/24/2017	<0.005	0.0007 (J)	<0.005						
10/25/2017				<0.005		<0.005	<0.005	0.0024 (J)	0.0024 (J)
11/15/2017					<0.005				
2/27/2018	<0.005	<0.005	<0.005	<0.005		<0.005			
2/28/2018					<0.005		<0.005	<0.01	<0.01
7/11/2018				<0.005		<0.005	<0.005	0.0024 (J)	0.0022 (J)
11/6/2018	<0.005	<0.005	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.01 (J)	<0.01	<0.01 (J)
8/27/2019	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005		<0.005		0.0031 (J)	
8/28/2019					<0.005		<0.005		0.0028 (J)
8/29/2019									
9/17/2019				<0.005					
10/15/2019	0.0025 (J)	0.00078 (J)	<0.005	<0.005					
10/16/2019					<0.005	<0.005			0.0024 (J)
10/17/2019							0.00058 (J)		
10/18/2019								0.0027 (J)	
3/2/2020	0.00045 (J)		0.0006 (J)	<0.005					
3/3/2020		0.00092 (J)			0.00066 (J)	<0.005	0.00046 (J)		0.0028 (J)
3/4/2020								0.0035 (J)	
8/11/2020	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.005			0.0024 (J)
8/12/2020					0.00074 (J)				
8/13/2020							0.0048 (J)		
8/14/2020								0.0033 (J)	
9/22/2020	<0.005		0.00058 (J)	<0.005		<0.005			0.003 (J)
9/23/2020					0.00059 (J)		<0.005		
9/24/2020		0.001 (J)						0.0029 (J)	
3/1/2021	<0.005								
3/2/2021			<0.005		<0.005	<0.005	<0.005		0.0024 (J)
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		0.003 (J)
9/10/2021		<0.005							
9/13/2021								0.0027 (J)	
1/18/2022	<0.005								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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			0.0029 (J)
1/26/2022		0.0011 (J)							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								0.0023 (J)	0.0024 (J)
9/15/2022		<0.005	<0.005	<0.005	<0.005				
9/20/2022									
1/31/2023	<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)	0.0022 (J)
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		<0.005	<0.005	<0.005		0.0021 (J)
9/11/2023		0.0016 (J)		<0.005					
9/13/2023								0.0027 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0017 (J)	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.005	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.0016 (J)	
3/30/2017	0.0005 (J)		0.0005 (J)
5/11/2017	0.0005 (J)		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		<0.005	0.0006 (J)
10/24/2017	<0.005		
10/25/2017		0.0015 (J)	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		<0.005	<0.005
7/11/2018	<0.005	<0.005	<0.005
11/6/2018	<0.005		
11/7/2018		<0.01 (J)	<0.005
8/27/2019	0.0004 (J)		
8/28/2019			
8/29/2019		0.0017 (J)	0.00041 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.00046 (J)	0.0015 (J)	<0.005
10/18/2019			
3/2/2020			
3/3/2020	<0.005		0.00048 (J)
3/4/2020		0.0032 (J)	
8/11/2020	0.00067 (J)		
8/12/2020			
8/13/2020		0.0023 (J)	
8/14/2020			<0.005
9/22/2020		0.0013 (J)	
9/23/2020	<0.005		
9/24/2020			0.00096 (J)
3/1/2021			
3/2/2021	0.00064 (J)	0.0022 (J)	
3/3/2021			0.002 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.005		<0.005
9/10/2021		<0.005	
9/13/2021			
1/18/2022			

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	<0.005		<0.005
1/21/2022		0.0021 (J)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0014 (J)	<0.005
9/20/2022	<0.005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005		
2/7/2023		0.0023 (J)	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.0026 (J)	<0.005
9/13/2023	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.005	<0.005
8/31/2016							<0.005		
9/1/2016					<0.005	<0.005			
9/2/2016	0.0012 (J)								
9/7/2016				<0.005					
12/6/2016							<0.005	<0.005	<0.005
12/8/2016	<0.005			<0.005	<0.005	<0.005			
3/28/2017			0.0005 (J)				<0.005		0.001 (J)
3/29/2017	<0.005							0.0004 (J)	
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				<0.005	<0.005	<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					<0.005	<0.005
10/25/2017	<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	<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					<0.005
7/12/2018	<0.005	<0.005			<0.005	<0.005			
11/6/2018			<0.005				<0.005	<0.005	<0.005
11/7/2018	<0.005			<0.005	<0.005	<0.005			
11/8/2018		<0.005							
8/27/2019			<0.005				<0.005		0.00048 (J)
8/28/2019				<0.005				<0.005	
8/29/2019	<0.005	<0.005			<0.005	<0.005			
10/15/2019			<0.005						
10/16/2019							<0.005	0.0013 (J)	
10/17/2019				0.00041 (J)	<0.005				0.00051 (J)
10/18/2019	<0.005	0.00041 (J)				<0.005			
3/2/2020			<0.005				0.00045 (J)		
3/3/2020	<0.005							0.00061 (J)	0.0057 (J)
3/4/2020		0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)			
8/11/2020									0.00061 (J)
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								
9/22/2020			<0.005	0.001 (J)			<0.005		<0.005
9/23/2020					<0.005	<0.005		0.00086 (J)	
9/24/2020	<0.005	0.00084 (J)							
3/1/2021			<0.005						
3/2/2021							<0.005	0.0015 (J)	0.00059 (J)
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	<0.005		<0.005
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.005				
1/24/2022			<0.005			<0.005	<0.005		
1/25/2022								<0.005	
1/26/2022									0.0029 (J)
9/13/2022				<0.005	<0.005	<0.005			
9/14/2022							<0.005		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						<0.005
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		<0.005	<0.005			0.0013 (J)
2/6/2023	<0.005	<0.005							
2/7/2023							<0.005	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					<0.005			<0.005	
9/13/2023			<0.005	<0.005		<0.005	<0.005		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
7/23/2020	0.086								
8/3/2020	0.087								
8/13/2020									
8/17/2020	0.077								
9/24/2020									
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)	
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								
3/12/2021									
4/15/2021									0.017
9/9/2021									
9/10/2021			0.013						
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)			
9/14/2021				0.1			0.0017 (J)	<0.005	0.0055
1/20/2022									0.0045 (J)
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								
9/9/2022									
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									0.0027 (J)
2/2/2023	<0.005		0.011						
2/3/2023		0.0022 (J)		0.17					0.0025 (J)
2/6/2023						0.0007 (J)			
2/7/2023					<0.005		0.001 (J)	0.0004 (J)	
9/6/2023	0.031								
9/7/2023									
9/8/2023		0.0032 (J)							
9/11/2023			0.01		<0.005				
9/12/2023						0.001 (J)			0.0022 (J)
9/13/2023				0.18			0.00045 (J)	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
7/23/2020			
8/3/2020			
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021			
1/20/2022			<0.005
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			<0.005
9/9/2022			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.051	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	0.007		
2/7/2023		0.059	
9/6/2023			
9/7/2023	0.011		<0.005
9/8/2023		0.057	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.053								
1/30/2019		<0.01							
8/27/2019									
8/28/2019									
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/15/2019									
10/16/2019									
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/22/2020									
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/1/2021									
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/9/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				
1/18/2022									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/20/2022	0.039		<0.005						
1/21/2022					0.011				
1/25/2022		0.013		0.0039 (J)					
1/26/2022							0.071	0.064	0.003 (J)
1/27/2022						0.0038 (J)			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.073	0.057	
9/13/2022			<0.005 (D)		0.012				0.0029 (J)
9/14/2022	0.0465 (D)								
9/16/2022		0.012 (D)		0.00175 (JD)		0.00135 (JD)			
1/31/2023							0.08	0.067	
2/1/2023									0.0033 (J)
2/2/2023	0.027								
2/3/2023					0.012				
2/6/2023			<0.005						
2/7/2023		0.015		0.0028 (J)		0.0031 (J)			
9/6/2023							0.034	0.041	0.0029 (J)
9/7/2023	0.047								
9/11/2023		0.02		0.0024 (J)					
9/12/2023			<0.005		0.015	0.0022 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.025	0.0034 (J)
5/11/2017		0.0281	
5/15/2017			0.0024 (J)
6/15/2017		0.0322	0.0014 (J)
7/11/2017			0.0007 (J)
7/12/2017		0.0247	
8/8/2017			0.0007 (J)
10/24/2017		0.0267	<0.005
2/27/2018			<0.005
3/8/2018		0.027	
7/12/2018		0.024	
11/6/2018			<0.005
11/7/2018		0.018	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		0.013	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.00064 (J)
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		
3/2/2020			0.00037 (J)
3/9/2020		0.016	
8/11/2020			0.0012 (J)
8/13/2020		0.0051	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.011	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.0078	
3/15/2021	<0.005		
9/9/2021		0.0064	<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0048 (J)		
9/16/2021			
1/18/2022			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		0.014	
9/7/2022			<0.005
9/8/2022		0.012	
9/12/2022			
9/13/2022	0.00063 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		0.008	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		0.0086	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.193	<0.01			<0.005			
9/1/2016				0.0021 (J)					0.0553
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)		0.0561
12/8/2016								0.029	
3/28/2017	0.0033 (J)								
3/29/2017		0.184	<0.01	0.0026 (J)		<0.005			0.0534
3/30/2017					0.0005 (J)		0.0024 (J)	0.0283	
5/11/2017									
5/12/2017	0.0016 (J)								
6/15/2017									
6/16/2017	0.0011 (J)								
7/11/2017	0.0008 (J)								
7/12/2017		0.177	<0.01	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)	0.023	0.0489
10/24/2017	0.0004 (J)	0.175	<0.01						
10/25/2017				0.0021 (J)		<0.005	0.0019 (J)	0.0259	0.0514
11/15/2017					<0.005				
2/27/2018	<0.005	0.2	<0.01	<0.01		<0.005			
2/28/2018					<0.005		<0.01	0.02	0.0511
7/11/2018				0.002 (J)		<0.005	0.0018 (J)	0.025	0.051
11/6/2018	<0.005	0.2	<0.01						
11/7/2018				<0.01 (J)	<0.005	<0.005	0.025	<0.01 (J)	0.048
8/27/2019	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005		0.031	
8/28/2019					<0.005		0.0015 (J)		0.048
8/29/2019									
9/17/2019				0.0079					
10/15/2019	<0.005	0.17	0.0006 (J)	0.0058					
10/16/2019					<0.005	<0.005			0.046
10/17/2019							0.0018 (J)		
10/18/2019								0.023	
3/2/2020	<0.005		0.00078 (J)	0.029					
3/3/2020		0.18			<0.005	<0.005	0.0018 (J)		0.054
3/4/2020								0.023	
8/11/2020	<0.005	0.11	0.00055 (J)	0.006		<0.005			0.049
8/12/2020					<0.005				
8/13/2020							0.0024 (J)		
8/14/2020								0.026	
9/22/2020	<0.005		0.00098 (J)	0.013		<0.005			0.051
9/23/2020					0.00038 (J)		0.0018 (J)		
9/24/2020		0.086						0.028	
3/1/2021	<0.005								
3/2/2021			0.00065 (J)		<0.005	<0.005	0.0013 (J)		0.051
3/3/2021				0.01				0.016	
3/4/2021		0.071							
9/8/2021	<0.005								
9/9/2021			0.00081 (J)	0.034	<0.005	<0.005	0.0016 (J)		0.055
9/10/2021		0.076							
9/13/2021								0.019	
1/18/2022	<0.005								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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			0.054
1/26/2022		0.099							
9/7/2022	<0.005								
9/13/2022						<0.005	0.0016 (J)		
9/14/2022								0.016	0.052
9/15/2022		0.055	0.001 (J)	0.025	<0.005				
9/20/2022									
1/31/2023	<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	0.055
2/7/2023									
9/6/2023	<0.005								
9/8/2023			0.0011 (J)		<0.005	<0.005	0.0018 (J)		0.051
9/11/2023		0.11		0.017					
9/13/2023								0.02	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.497	0.0085 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.614	
12/8/2016			0.0095 (J)
3/28/2017			
3/29/2017		0.443	
3/30/2017	0.0255		0.0076 (J)
5/11/2017	0.0284		
5/12/2017			
6/15/2017	0.0238		
6/16/2017			
7/11/2017	0.0238		
7/12/2017		0.538	0.0092 (J)
10/24/2017	0.0292		
10/25/2017		0.432	0.0092 (J)
11/15/2017			
2/27/2018	0.042		
2/28/2018		0.459	<0.01
7/11/2018	0.02	0.47	0.0097 (J)
11/6/2018	0.024		
11/7/2018		0.42	<0.01 (J)
8/27/2019	0.0088		
8/28/2019			
8/29/2019		0.66	0.01
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0084	0.57	0.01
10/18/2019			
3/2/2020			
3/3/2020	0.0073		0.01
3/4/2020		0.84	
8/11/2020	0.0064		
8/12/2020			
8/13/2020		0.73	
8/14/2020			0.0098
9/22/2020		0.47	
9/23/2020	0.0062		
9/24/2020			0.01
3/1/2021			
3/2/2021	0.0055	0.77	
3/3/2021			0.0087
3/4/2021			
9/8/2021			
9/9/2021	0.0048 (J)		0.0096
9/10/2021		0.45	
9/13/2021			
1/18/2022			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.004 (J)		0.0076
1/21/2022		0.95	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.75	0.0081
9/20/2022	0.0028 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0024 (J)		
2/7/2023		1	0.0088
9/6/2023			
9/8/2023			
9/11/2023		1.4	0.0097
9/13/2023	0.0024 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0568	0.0896
8/31/2016							0.055		
9/1/2016					0.536	0.539			
9/2/2016	0.0102								
9/7/2016				0.0695					
12/6/2016							0.0432	0.0873	0.122
12/8/2016	0.0079 (J)			0.0652	0.381	0.575			
3/28/2017			0.0018 (J)				0.04		0.124
3/29/2017	0.0097 (J)							0.0902	
3/30/2017		<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	0.136
7/12/2017		<0.005							
7/13/2017	0.0106			0.0481	0.396	0.531			
10/24/2017			0.0017 (J)					0.123	0.151
10/25/2017	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	0.163
2/28/2018	<0.01			0.0167					
3/1/2018		<0.005			0.401				
3/2/2018						0.49			
7/11/2018				0.019					0.18
7/12/2018	0.011	<0.005			0.36	0.46			
11/6/2018			<0.01 (J)				0.019	0.077	0.2
11/7/2018	<0.01 (J)			0.02	0.35	0.48			
11/8/2018		<0.01 (J)							
8/27/2019			0.0018 (J)				0.02		0.24
8/28/2019				0.029				0.051	
8/29/2019	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				0.03	0.26				0.21
10/18/2019	0.0084	<0.005				0.41			
3/2/2020			0.0021 (J)				0.028		
3/3/2020	0.0098							0.044	0.2
3/4/2020		0.00043 (J)		0.014	0.28	0.42			
8/11/2020									0.22
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	0.0087								
9/22/2020			0.0014 (J)	0.014			0.02		0.16
9/23/2020					0.17	0.37		0.04	
9/24/2020	0.01	<0.005							
3/1/2021			0.002 (J)						
3/2/2021							0.021	0.033	0.18
3/3/2021	0.0078	0.00039 (J)		0.0087	0.2	0.36			
9/9/2021		0.00049 (J)							
9/10/2021	0.0076		0.0019 (J)		0.23	0.36	0.022		0.21
9/13/2021				0.008				0.028	
1/20/2022	0.0075	0.00058 (J)		0.0056					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.24				
1/24/2022			0.0019 (J)			0.34	0.025		
1/25/2022								0.019	
1/26/2022									0.22
9/13/2022				0.0069	0.21	0.31			
9/14/2022							0.027		
9/15/2022								0.0046 (J)	
9/16/2022	0.0098								
9/19/2022			0.0018 (J)						0.25
9/20/2022		0.00053 (J)							
2/1/2023				0.0068					
2/3/2023			0.0018 (J)		0.21	0.31			0.21
2/6/2023	0.0058	0.00064 (J)							
2/7/2023							0.021	0.0018 (J)	
9/11/2023	0.0074	0.00074 (J)							
9/12/2023					0.18			0.003 (J)	
9/13/2023			0.0018 (J)	0.008		0.31	0.016		
9/14/2023									

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.0052

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020	1.4 (U)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									2.31
9/9/2021									
9/10/2021			1.74						
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)			
9/14/2021				9.6			0.917 (U)	4.39	3.68
1/20/2022									1.21 (U)
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)								
9/9/2022									
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									2.22
2/2/2023	0.981		0.676 (U)						
2/3/2023		0.426 (U)		14.8					1.81
2/6/2023						0.459 (U)			
2/7/2023					0.642 (U)		0.975	6.24	
9/6/2023	0.326 (U)								
9/7/2023									
9/8/2023		1.57							
9/11/2023			1.25		0.61 (U)				
9/12/2023						0.907 (U)			1.74
9/13/2023				13.9			1.12	8.6	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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)
9/25/2020			
9/28/2020		1.39	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		1.01 (U)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			1.18 (U)
4/15/2021			
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021			
1/20/2022			1.71
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.831 (U)	
9/8/2022			
9/9/2022			1.96
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.752 (U)	
9/19/2022			
2/2/2023			1.6
2/3/2023			
2/6/2023	8.22		
2/7/2023		1.01 (U)	
9/6/2023			
9/7/2023	14.9		2.24
9/8/2023		0.859 (U)	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
8/27/2019									
8/28/2019									
10/15/2019									
10/16/2019									
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/22/2020									
9/24/2020			0.761 (U)						
9/25/2020					0.0359 (U)	0.925 (U)			
9/28/2020				0.747 (U)				1.54	
3/1/2021									
3/4/2021			2.16		1.15 (U)				
3/5/2021						2.84			
3/9/2021								0.786 (U)	
3/12/2021									
9/9/2021									
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				
1/18/2022									
1/20/2022	0.846 (U)		0.92						
1/21/2022					0.549 (U)				
1/25/2022		0 (U)		0.33 (U)					
1/26/2022							1.27 (U)	0.758 (U)	1.47 (U)
1/27/2022						1.18			
1/28/2022									
9/7/2022									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							2.34	1.09	
9/13/2022			1.11		0.893 (U)				1.11
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									1.33
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			
9/6/2023							1.41	1.05	1.06 (U)
9/7/2023	0.988 (U)								
9/11/2023		0.736 (U)		0.212 (U)					
9/12/2023			1.16		0.0781 (U)	1.16			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		6.36	0.866 (U)
5/11/2017		3.45	
5/15/2017			0.288 (U)
6/15/2017		4.58	1.01 (U)
7/11/2017			0.254 (U)
7/12/2017		4.37	
8/8/2017			1.48
10/24/2017		4.46	0.472 (U)
2/27/2018			1.22
3/8/2018		2.14	
7/10/2018			0.362 (U)
7/12/2018		4.65	
11/6/2018			0.859 (U)
11/7/2018		3.05	
1/28/2019			
1/30/2019			
8/27/2019			1.97
8/28/2019		2.68	
10/15/2019			0.319 (U)
10/16/2019		1.89	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.419 (U)
3/9/2020		3.51	
8/11/2020			0.812 (U)
8/13/2020		1.04	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		2.27	0.45 (U)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.552 (U)
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		1.63	
9/9/2021		2.72	0.779 (U)
9/13/2021			
9/14/2021			
9/15/2021	2.2		
9/16/2021			
1/18/2022			1.26
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.52 (U)		
1/27/2022			
1/28/2022		2.1	
9/7/2022			0.504 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		1.69	
9/12/2022			
9/13/2022	2.03		
9/14/2022			
9/16/2022			
1/31/2023	0.873 (U)		0.416 (U)
2/1/2023		1.92	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	1.22		0.651 (U)
9/7/2023		2.16	
9/11/2023			
9/12/2023			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		1.08	1.09			0.997 (U)			
9/1/2016				1.11					1.07 (U)
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		0.903 (U)
12/8/2016								1.65	
3/28/2017	0.257 (U)								
3/29/2017		1.24	0.727	0.0726 (U)		0.313 (U)			0.302 (U)
3/30/2017					1.59		0.276 (U)	0.865 (U)	
5/11/2017									
5/12/2017	0.165 (U)								
6/15/2017									
6/16/2017	0.732 (U)								
7/11/2017	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)	0.283 (U)
10/24/2017	0.724 (U)	0.838 (U)	0.98 (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	0.714 (U)	1.55	1.14	0.83		0.695 (U)			
2/28/2018					0.721 (U)		1.25	1.1 (U)	0.813 (U)
7/10/2018	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)	0.751 (U)
11/6/2018	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)	1.02
8/27/2019	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)		1.12	
8/28/2019					1.43		1.01 (U)		0.661 (U)
8/29/2019									
10/15/2019	1.21 (U)	0.831 (U)	0.622 (U)	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	1.3		1.3	1.2 (U)					
3/3/2020		1.69			1.03	1.44	0.293 (U)		0.383 (U)
3/4/2020								0.493 (U)	
8/11/2020	0.965 (U)	1.45	1.02	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	0.216 (U)		0.502 (U)	0.515 (U)		1.2 (U)			0.96 (U)
9/23/2020					0.935 (U)		1.69 (U)		
9/24/2020		1.39						0.369 (U)	
3/1/2021	0.389 (U)								
3/2/2021			0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)		0.775 (U)
3/3/2021				1.85				0.66 (U)	
3/4/2021		1.48							
9/8/2021	0.051 (U)								
9/9/2021			1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)		0.239 (U)
9/10/2021		0.882 (U)							
9/13/2021								0.85 (U)	
1/18/2022	0.729 (U)								

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							0.534 (U)	0.692 (U)	
1/25/2022			0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)			0.415 (U)
1/26/2022		1.21							
9/7/2022	0.588 (U)								
9/13/2022						0.538 (U)	0.761 (U)		
9/14/2022								0.489 (U)	0.674 (U)
9/15/2022		0.953	1.12	0.52 (U)	1.01				
9/20/2022									
1/31/2023	0.314 (U)								
2/1/2023					0.819 (U)	0.794 (U)			
2/2/2023		1.47					0.991		
2/6/2023			0.442 (U)	1 (U)				0.809 (U)	1.23
2/7/2023									
9/6/2023	0.572 (U)								
9/8/2023			1.2		0.771 (U)	0.75 (U)	0.673 (U)		0.371 (U)
9/11/2023		1.09		1.02					
9/13/2023								1.02 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		1.48	0.908 (U)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		1.26 (U)	
12/8/2016			1.03 (U)
3/28/2017			
3/29/2017		0.373 (U)	
3/30/2017	0.737 (U)		0.884 (U)
5/11/2017	0.892 (U)		
5/12/2017			
6/15/2017	0.979 (U)		
6/16/2017			
7/11/2017	0.871 (U)		
7/12/2017		0.91 (U)	1.22
10/24/2017	1.19		
10/25/2017		0.853 (U)	1.07 (U)
11/15/2017			
2/27/2018	0.863 (U)		
2/28/2018		0.727 (U)	1.45
7/10/2018			
7/11/2018	0.663 (U)	1.3	1.59
11/6/2018	0.664		
11/7/2018		0.746 (U)	1.16
8/27/2019	1.6		
8/28/2019			
8/29/2019		0.996 (U)	0.582 (U)
10/15/2019			
10/16/2019			
10/17/2019	1.74	2	0.427 (U)
10/18/2019			
3/2/2020			
3/3/2020	1.23		0.567 (U)
3/4/2020		1.67	
8/11/2020	1.37		
8/12/2020			
8/13/2020		1.77	
8/14/2020			0.602 (U)
9/22/2020		1.61 (U)	
9/23/2020	1.96 (U)		
9/24/2020			0.396 (U)
3/1/2021			
3/2/2021	1.54 (U)	1.76	
3/3/2021			0.248 (U)
3/4/2021			
9/8/2021			
9/9/2021	1.22 (U)		0.702 (U)
9/10/2021		0.689 (U)	
9/13/2021			
1/18/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.722 (U)		0.337 (U)
1/21/2022		0.826 (U)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		1.38	0.771 (U)
9/20/2022	0.45 (U)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.5 (U)		
2/7/2023		1.92	0.582 (U)
9/6/2023			
9/8/2023			
9/11/2023		1.45	0.429 (U)
9/13/2023	0.864 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	1.54								
9/7/2016				0.876 (U)					
12/6/2016							0.348 (U)	0.407 (U)	0.828 (U)
12/8/2016	0.505 (U)			0.955	2.88	2.87			
3/28/2017			1.36				0.693 (U)		1.06
3/29/2017	0.715 (U)							0.28 (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	0.209 (U)	0.62 (U)
7/12/2017		0.703 (U)							
7/13/2017	1.14			1.08 (U)	2.37	1.78			
10/24/2017			1.24					0.615 (U)	1.21
10/25/2017	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)	1.79
2/28/2018	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				0.924 (U)					1.81
7/12/2018	0.981 (U)	0.918 (U)			1.73	1.81			
11/6/2018			1.2				1.13	0.577 (U)	1.13
11/7/2018	0.832 (U)			0.654 (U)	1.72	1.94			
11/8/2018		1.47							
8/27/2019			1.79				1.81		1.55
8/28/2019				0.883 (U)				0.815 (U)	
8/29/2019	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				1.38	2.58				0.702 (U)
10/18/2019	1.1 (U)	1.32				1.42			
3/2/2020			1.99				2.28		
3/3/2020	0.517 (U)							0.481 (U)	1.37
3/4/2020		1.39		0.722 (U)	1.68	1.31			
8/11/2020									0.819 (U)
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	1.83								
9/22/2020			1.43 (U)	1.03 (U)			1.4 (U)		1.15 (U)
9/23/2020					2.3 (U)	1.51 (U)		0.8 (U)	
9/24/2020	1.02 (U)	1.49							
3/1/2021			1.05 (U)						
3/2/2021							0.971 (U)	0.751 (U)	1.29 (U)
3/3/2021	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41			
9/9/2021		1.81							
9/10/2021	0.616 (U)		1.46		2.32	2.21	1.15		1.28
9/13/2021				1.15 (U)				0.916 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/20/2022	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									0.789 (U)
9/13/2022				0.829 (U)	1.97	1.42			
9/14/2022							0.665 (U)		
9/15/2022								0.896	
9/16/2022	1.01								
9/19/2022			1.55						1.38
9/20/2022		1.17 (U)							
2/1/2023				0.599 (U)					
2/3/2023			1.51		1.8	1.4			0.949 (U)
2/6/2023	0.975	1.44							
2/7/2023							1.26	0.737 (U)	
9/11/2023	0.58 (U)	1.28							
9/12/2023					2.19			0.63 (U)	
9/13/2023			0.964 (U)	1.59		1.22 (U)	1.23 (U)		
9/14/2023									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	2.41

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.1								
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									<0.1
9/9/2021									
9/10/2021			0.083 (J)						
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1			
9/14/2021				0.5			<0.1	0.57	<0.1
1/20/2022									<0.1
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									0.057 (J)
2/2/2023	0.052 (J)		0.091 (J)						
2/3/2023		0.11		0.36					0.052 (J)
2/6/2023						<0.1			
2/7/2023					0.067 (J)		<0.1	0.36	
9/6/2023	<0.1								
9/7/2023									
9/8/2023		<0.1							
9/11/2023			0.1		0.067 (J)				
9/12/2023						<0.1			<0.1
9/13/2023				0.3			<0.1	0.36	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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)
9/25/2020			
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/15/2021			
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021			
1/20/2022			0.099 (J)
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			0.13
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.22	
9/19/2022			
2/2/2023			0.16
2/3/2023			
2/6/2023	0.21		
2/7/2023		0.19	
9/6/2023			
9/7/2023	0.22		0.13
9/8/2023		0.24	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.45								
1/30/2019		0.51							
3/12/2019									
3/13/2019									
8/27/2019									
8/28/2019									
10/15/2019									
10/16/2019									
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<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			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/1/2021									
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
3/12/2021									
9/9/2021									
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				
1/18/2022									
1/20/2022	0.12		<0.1						
1/21/2022					<0.1				
1/25/2022		0.12		<0.1					
1/26/2022							0.3	0.41	0.088 (J)
1/27/2022						<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.24	0.4	
9/13/2022			0.08 (J)		0.081 (J)				0.14
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									0.11
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			
9/6/2023							0.26	0.26	0.085 (J)
9/7/2023	0.12								
9/11/2023		0.12		0.11					
9/12/2023			0.069 (J)		0.087 (J)	<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.12 (J)	1.2 (O)
5/11/2017		0.07 (J)	
5/15/2017			0.005 (J)
6/15/2017		0.19 (J)	0.02 (J)
7/11/2017			0.06 (J)
7/12/2017		0.1 (J)	
8/8/2017			0.04 (J)
10/24/2017		0.06 (J)	<0.1
11/15/2017		0.05 (J)	
2/27/2018			<0.1
3/8/2018		<0.3	
7/12/2018		0.071 (J)	
11/6/2018			<0.1
11/7/2018		<0.3	
1/28/2019			
1/30/2019			
3/12/2019			0.039 (J)
3/13/2019		0.13 (J)	
8/27/2019			<0.1
8/28/2019		0.42	
10/15/2019			<0.1
10/16/2019		0.11 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.1
3/9/2020		0.1 (J)	
8/11/2020			<0.1
8/13/2020		0.062 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.099 (J)	<0.1
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.076 (J)	
9/9/2021		0.099 (J)	<0.1
9/13/2021			
9/14/2021			
9/15/2021	0.098 (J)		
9/16/2021			
1/18/2022			<0.1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.13		
1/27/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/28/2022		0.08 (J)	
9/7/2022			0.061 (J)
9/8/2022		0.11	
9/12/2022			
9/13/2022	0.18		
9/14/2022			
9/16/2022			
1/31/2023	0.19		0.053 (J)
2/1/2023		0.1	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.1		<0.1
9/7/2023		0.082 (J)	
9/11/2023			
9/12/2023			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		1	0.06 (J)			0.06 (J)			
9/1/2016				0.02 (J)					0.75
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)		0.37
12/8/2016								0.31	
3/28/2017	0.06 (J)								
3/29/2017		1.5	0.04 (J)	0.1 (J)		0.02 (J)			0.35
3/30/2017					0.12 (J)		<0.1	0.1 (J)	
5/11/2017									
5/12/2017	<0.1								
6/15/2017									
6/16/2017	0.008 (J)								
7/11/2017	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)	0.34
10/24/2017	<0.1	2.1	<0.1						
10/25/2017				0.6		<0.1	0.26 (J)	0.49	0.9
11/15/2017	<0.1	1.4			0.44				
2/27/2018	<0.1	2.3	<0.1	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
11/6/2018	<0.1	2	<0.1						
11/7/2018				<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)
3/12/2019	<0.1	1.7	0.052 (J)	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	1.4	<0.1	<0.1		<0.1		0.24 (J)	
8/28/2019					0.091 (J)		<0.1		0.2
8/29/2019									
10/15/2019	<0.1	1.4	<0.1	<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	<0.1		0.064 (J)	0.071 (J)					
3/3/2020		1.5			0.078 (J)	<0.1	<0.1		0.056 (J)
3/4/2020								<0.1	
8/11/2020	<0.1	1.4	<0.1	<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	<0.1		<0.1			0.084 (J)
9/23/2020					0.058 (J)		<0.1		
9/24/2020		0.97						0.056 (J)	
3/1/2021	<0.1								
3/2/2021			<0.1		0.084 (J)	<0.1	<0.1		0.19
3/3/2021				0.085 (J)				0.085 (J)	
3/4/2021		1.8							
9/8/2021	<0.1								
9/9/2021			<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1		0.18
9/10/2021		2.2							

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/13/2021								0.063 (J)	
1/18/2022	<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			0.16
1/26/2022		1.8							
9/7/2022	0.056 (J)								
9/13/2022						0.059 (J)	0.065 (J)		
9/14/2022								0.1	0.18
9/15/2022		0.84	0.064 (J)	0.078 (J)	0.095 (J)				
9/20/2022									
1/31/2023	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)	0.22
2/7/2023									
9/6/2023	<0.1								
9/8/2023			<0.1		0.055 (J)	<0.1	<0.1		0.17
9/11/2023		1.3		0.13					
9/13/2023								0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.66	0.07 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.66	
12/8/2016			0.14 (J)
3/28/2017			
3/29/2017		0.34	
3/30/2017	0.06 (J)		<0.1
5/11/2017	0.06 (J)		
5/12/2017			
6/15/2017	0.07 (J)		
6/16/2017			
7/11/2017	0.04 (J)		
7/12/2017		0.41	0.04 (J)
10/24/2017	0.43		
10/25/2017		0.68	0.34
11/15/2017			
2/27/2018	0.28		
2/28/2018		0.76	<0.1
7/11/2018	0.6	1.3	<0.1
11/6/2018	<0.1		
11/7/2018		<0.3 (J)	<0.1
3/12/2019	0.052 (J)		
3/13/2019		0.45	0.043 (J)
3/14/2019			
8/27/2019	<0.1		
8/28/2019			
8/29/2019		0.78	0.079 (J)
10/15/2019			
10/16/2019			
10/17/2019	0.042 (J)	0.26 (J)	<0.1
10/18/2019			
3/2/2020			
3/3/2020	<0.1		<0.1
3/4/2020		1.5	
8/11/2020	<0.1		
8/12/2020			
8/13/2020		0.9	
8/14/2020			<0.1
9/22/2020		0.15	
9/23/2020	<0.1		
9/24/2020			<0.1
3/1/2021			
3/2/2021	<0.1	1.4	
3/3/2021			<0.1
3/4/2021			
9/8/2021			
9/9/2021	0.053 (J)		<0.1
9/10/2021		0.25	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/13/2021			
1/18/2022			
1/20/2022	<0.1		<0.1
1/21/2022		1.3	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.69	0.087 (J)
9/20/2022	0.076 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.072 (J)		
2/7/2023		1.1	0.059 (J)
9/6/2023			
9/8/2023			
9/11/2023		1.5	0.054 (J)
9/13/2023	0.083 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.3								
9/7/2016				0.02 (J)					
12/6/2016							0.76	0.47	1.1
12/8/2016	0.12 (J)			0.06 (J)	1.1	1.6			
3/28/2017			0.17 (J)				1.2		1.1
3/29/2017	0.11 (J)							0.51	
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	0.2 (J)	1.1
7/12/2017		0.22 (J)							
7/13/2017	0.09 (J)			<0.1	0.84	1.1			
10/24/2017			<0.1					0.82	1.7
10/25/2017	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	1.2
2/28/2018	<0.1			<0.1					
3/1/2018		0.18			1.4				
3/2/2018						1.1			
7/11/2018				<0.1					1.3
7/12/2018	0.13 (J)	0.25 (J)			0.96	0.65			
11/6/2018			<0.1				<0.3 (J)	0.35	1.1
11/7/2018	<0.1			<0.1	0.74	0.63			
11/8/2018		<0.3 (J)							
3/12/2019			0.082 (J)				0.31	0.35	0.97
3/14/2019	0.042 (J)	0.092 (J)		<0.1	1.6	1.4			
8/27/2019			<0.1				0.32		0.68
8/28/2019				<0.1				0.098 (J)	
8/29/2019	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	0.46				1.2
10/18/2019	<0.1	0.079 (J)				0.46			
3/2/2020			<0.1				0.33		
3/3/2020	<0.1							<0.1	1.4
3/4/2020		0.075 (J)		<0.1	0.74	0.7			
8/11/2020									1.3
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								
9/22/2020			<0.1	<0.1			0.12		0.99
9/23/2020					0.11	0.32		<0.1	
9/24/2020	<0.1	0.075 (J)							
3/1/2021			<0.1						
3/2/2021							0.15	0.059 (J)	0.93
3/3/2021	<0.1	0.063 (J)		<0.1	0.71	0.67			
9/9/2021		0.084 (J)							

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/10/2021	<0.1		<0.1		0.22	0.47	0.16		2
9/13/2021				<0.1				0.069 (J)	
1/20/2022	<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									1.2
9/13/2022				<0.1	0.47	0.43			
9/14/2022							0.27		
9/15/2022								0.077 (J)	
9/16/2022	0.068 (J)								
9/19/2022			0.061 (J)						0.8
9/20/2022		0.11							
2/1/2023				<0.1					
2/3/2023			0.096 (J)		0.45	0.48			0.9
2/6/2023	0.057 (J)	0.076 (J)							
2/7/2023							0.22	0.13	
3/21/2023									
4/10/2023									
9/11/2023	0.054 (J)	0.1							
9/12/2023					0.51			0.091 (J)	
9/13/2023			<0.1	<0.1		0.51	0.14		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	0.099 (J)
4/10/2023	0.13
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	8.8E-05 (J)								
9/24/2020									
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)	
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)								
3/12/2021									
4/15/2021									0.00019 (J)
9/9/2021									
9/10/2021			<0.001						
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<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									<0.001
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					<0.001
2/6/2023						<0.001			
2/7/2023					<0.001		<0.001	<0.001	
9/6/2023	<0.001								
9/7/2023									
9/8/2023		<0.001							
9/11/2023			<0.001		<0.001				
9/12/2023						<0.001			<0.001
9/13/2023				<0.001			0.0025	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/25/2020			
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/15/2021			
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021			
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			<0.001
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.001	
9/19/2022			
2/2/2023			<0.001
2/3/2023			
2/6/2023	<0.001		
2/7/2023		<0.001	
9/6/2023			
9/7/2023	<0.001		<0.001
9/8/2023		<0.001	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.001								
1/30/2019		<0.001							
8/27/2019									
8/28/2019									
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/22/2020									
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/1/2021									
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
3/12/2021									
9/9/2021									
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/18/2022									
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					
1/26/2022							<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						0.0022			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.001	<0.001	
9/13/2022			<0.001		<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									<0.001
2/2/2023	<0.001								
2/3/2023					<0.001				
2/6/2023			<0.001						
2/7/2023		<0.001		<0.001		<0.001			
9/6/2023							<0.001	<0.001	<0.001
9/7/2023	<0.001								
9/11/2023		<0.001		<0.001					
9/12/2023			<0.001		<0.001	0.0009 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.001	9E-05 (J)
5/11/2017		<0.001	
5/15/2017			0.0001 (J)
6/15/2017		<0.001	0.0002 (J)
7/11/2017			<0.001
7/12/2017		<0.001	
8/8/2017			7E-05 (J)
10/24/2017		<0.001	<0.001
2/27/2018			<0.001
3/8/2018		<0.001	
7/12/2018		<0.001	
11/6/2018			<0.001
11/7/2018		<0.001	
1/28/2019			
1/30/2019			
8/27/2019			7.8E-05 (J)
8/28/2019		<0.001	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.001
10/16/2019		<0.001	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			7.4E-05 (J)
3/9/2020		<0.001	
8/11/2020			0.0003 (J)
8/13/2020		<0.001	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.001	7.8E-05 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.001
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.001	
9/9/2021		<0.001	<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001		
9/16/2021			
1/18/2022			<0.001
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		<0.001	
9/7/2022			<0.001
9/8/2022		<0.001	
9/12/2022			
9/13/2022	<0.001		
9/14/2022			
9/16/2022			
1/31/2023	<0.001		<0.001
2/1/2023		<0.001	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.001		<0.001
9/7/2023		<0.001	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.01	<0.001			<0.001			
9/1/2016				<0.001					<0.001
9/2/2016									
9/6/2016					<0.001		<0.001		
9/7/2016								<0.001	
12/6/2016		<0.01	<0.001			<0.001			
12/7/2016				<0.001	<0.001		0.0002 (J)		<0.001
12/8/2016								<0.001	
3/28/2017	<0.001								
3/29/2017		<0.01	<0.001	<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)								
6/15/2017									
6/16/2017	<0.001								
7/11/2017	<0.001								
7/12/2017		<0.01	<0.001	<0.001	<0.001	<0.001	0.0001 (J)	<0.001	<0.001
10/24/2017	<0.001	<0.01	<0.001						
10/25/2017				<0.001		<0.001	<0.001	<0.001	<0.001
11/15/2017					<0.001				
2/27/2018	<0.001	<0.01	<0.001	<0.001		<0.001			
2/28/2018					<0.001		<0.001	<0.001	<0.001
7/11/2018				<0.001		<0.001	<0.001	<0.001	<0.001
11/6/2018	<0.001	<0.01	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<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)		0.00026 (J)
8/29/2019									
9/17/2019				<0.001					
10/15/2019	<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								7.4E-05 (J)	
3/2/2020	<0.001		0.00015 (J)	<0.001					
3/3/2020		0.00011 (J)			<0.001	<0.001	<0.001		7E-05 (J)
3/4/2020								0.00013 (J)	
8/11/2020	<0.001	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)			5.3E-05 (J)
8/12/2020					<0.001				
8/13/2020							0.0012 (J)		
8/14/2020								0.00017 (J)	
9/22/2020	<0.001		0.0001 (J)	0.00011 (J)		4.4E-05 (J)			0.00016 (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								
3/2/2021			<0.001		<0.001	8.3E-05 (J)	<0.001		4.5E-05 (J)
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		<0.01							
9/13/2021								<0.001	
1/18/2022	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							<0.001	<0.001	
1/25/2022			<0.001	<0.001	<0.001	<0.001			<0.001
1/26/2022		<0.01							
9/7/2022	<0.001								
9/13/2022						<0.001	<0.001		
9/14/2022								<0.001	<0.001
9/15/2022		<0.01	<0.001	<0.001	<0.001				
9/20/2022									
1/31/2023	<0.001								
2/1/2023					<0.001	<0.001			
2/2/2023		<0.01					<0.001		
2/6/2023			<0.001	<0.001				<0.001	<0.001
2/7/2023									
9/6/2023	<0.001								
9/8/2023			<0.001		<0.001	<0.001	<0.001		<0.001
9/11/2023		<0.01		<0.001					
9/13/2023								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.1	0.0002 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.1	
12/8/2016			<0.001
3/28/2017			
3/29/2017		<0.1	
3/30/2017	0.0001 (J)		0.0004 (J)
5/11/2017	9E-05 (J)		
5/12/2017			
6/15/2017	0.0001 (J)		
6/16/2017			
7/11/2017	<0.001		
7/12/2017		<0.1	0.0001 (J)
10/24/2017	<0.001		
10/25/2017		<0.1	<0.001
11/15/2017			
2/27/2018	<0.001		
2/28/2018		<0.1	<0.001
7/11/2018	<0.001	<0.1	<0.001
11/6/2018	<0.001		
11/7/2018		<0.1	<0.001
8/27/2019	6E-05 (J)		
8/28/2019			
8/29/2019		0.00015 (J)	0.00023 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)
10/18/2019			
3/2/2020			
3/3/2020	<0.001		0.00015 (J)
3/4/2020		0.00068 (J)	
8/11/2020	6.4E-05 (J)		
8/12/2020			
8/13/2020		0.00044 (J)	
8/14/2020			<0.001
9/22/2020		0.00013 (J)	
9/23/2020	9.4E-05 (J)		
9/24/2020			0.00014 (J)
3/1/2021			
3/2/2021	0.00014 (J)	0.00047 (J)	
3/3/2021			<0.001
3/4/2021			
9/8/2021			
9/9/2021	<0.001		<0.001
9/10/2021		<0.1	
9/13/2021			
1/18/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	<0.001		<0.001
1/21/2022		<0.1	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.1	<0.001
9/20/2022	<0.001		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001		
2/7/2023		<0.1	<0.001
9/6/2023			
9/8/2023			
9/11/2023		<0.1	<0.001
9/13/2023	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.001	<0.005
8/31/2016							0.0002 (J)		
9/1/2016					0.0005 (J)	0.0008 (J)			
9/2/2016	<0.001								
9/7/2016				0.0002 (J)					
12/6/2016							0.0004 (J)	<0.001	<0.005
12/8/2016	<0.001			0.0002 (J)	<0.001	0.0019 (J)			
3/28/2017			0.0002 (J)				<0.001		<0.005
3/29/2017	<0.001							0.0001 (J)	
3/30/2017		<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	<0.005
7/12/2017		<0.001							
7/13/2017	<0.001			0.0004 (J)	0.0007 (J)	0.002 (J)			
10/24/2017			<0.001					<0.001	<0.005
10/25/2017	<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	<0.005
2/28/2018	<0.001			<0.001					
3/1/2018		<0.001			<0.001				
3/2/2018						<0.001			
7/11/2018				0.00052 (J)					<0.005
7/12/2018	<0.001	<0.001			0.001 (J)	0.0014 (J)			
11/6/2018			<0.001				<0.001	<0.001	<0.005
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)				5.1E-05 (J)		<0.005
8/28/2019				0.00036 (J)				8.2E-05 (J)	
8/29/2019	<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				0.00026 (J)	0.0011 (J)				<0.005
10/18/2019	<0.001	<0.001				0.00095 (J)			
3/2/2020			<0.001				5.1E-05 (J)		
3/3/2020	<0.001							0.00023 (J)	0.00017 (J)
3/4/2020		<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)			
8/11/2020									<0.005
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								
9/22/2020			<0.001	0.00074 (J)			4.8E-05 (J)		0.00015 (J)
9/23/2020					0.00053 (J)	0.001 (J)		0.00011 (J)	
9/24/2020	<0.001	<0.001							
3/1/2021			0.00012 (J)						
3/2/2021							8E-05 (J)	0.00027 (J)	0.00028 (J)
3/3/2021	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011			
9/9/2021		<0.001							
9/10/2021	<0.001		<0.001		<0.001	0.00099 (J)	<0.001		<0.005
9/13/2021				<0.001				<0.001	
1/20/2022	<0.001	<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.001				
1/24/2022			<0.001			0.0011	<0.001		
1/25/2022								<0.001	
1/26/2022									<0.005
9/13/2022				<0.001	<0.001	0.00093 (J)			
9/14/2022							<0.001		
9/15/2022								<0.001	
9/16/2022	<0.001								
9/19/2022			<0.001						<0.005
9/20/2022		<0.001							
2/1/2023				<0.001					
2/3/2023			<0.001		<0.001	<0.001			<0.005
2/6/2023	<0.001	<0.001							
2/7/2023							<0.001	<0.001	
9/11/2023	<0.001	<0.001							
9/12/2023					0.00024 (J)			<0.001	
9/13/2023			<0.001	0.00018 (J)		0.00082 (J)	<0.001		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.00015 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0013 (J)								
9/24/2020									
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)	
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)								
3/12/2021									
4/15/2021									0.088
9/9/2021									
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			0.015 (J)	0.029 (J)	0.077
1/20/2022									0.079
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									0.076
2/2/2023	<0.03		0.011 (J)						
2/3/2023		0.008 (J)		0.037					0.068
2/6/2023						0.014 (J)			
2/7/2023					0.0053 (J)		0.014 (J)	0.018 (J)	
9/6/2023	0.0023 (J)								
9/7/2023									
9/8/2023		0.015 (J)							
9/11/2023			0.0091 (J)		0.0045 (J)				
9/12/2023						0.012 (J)			0.044
9/13/2023				0.04			0.014 (J)	0.019 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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)
9/25/2020			
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/15/2021			
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021			
1/20/2022			0.0092 (J)
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			0.0085 (J)
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0057 (J)	
9/19/2022			
2/2/2023			0.0082 (J)
2/3/2023			
2/6/2023	0.014 (J)		
2/7/2023		0.0054 (J)	
9/6/2023			
9/7/2023	0.013 (J)		0.0092 (J)
9/8/2023		0.0055 (J)	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.05								
1/30/2019		<0.03							
8/27/2019									
8/28/2019									
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/22/2020									
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/1/2021									
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/9/2021									
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				
1/18/2022									
1/20/2022	0.0062 (J)		<0.03						
1/21/2022					0.0022 (J)				
1/25/2022		0.00073 (J)		0.00082 (J)					
1/26/2022							0.015 (J)	0.013 (J)	0.0047 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						0.0066 (J)			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.015 (J)	0.013 (J)	
9/13/2022			0.0021 (JD)		0.0027 (J)				0.0052 (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									0.0048 (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)			
9/6/2023							0.0095 (J)	0.013 (J)	0.0045 (J)
9/7/2023	0.0069 (J)								
9/11/2023		<0.03		<0.03					
9/12/2023			<0.03		0.0021 (J)	0.004 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.0108 (J)	0.0054 (J)
5/11/2017		0.0087 (J)	
5/15/2017			0.002 (J)
6/15/2017		0.0088 (J)	<0.03
7/11/2017			<0.03
7/12/2017		0.0075 (J)	
8/8/2017			<0.03
10/24/2017		0.0103 (J)	<0.03
2/27/2018			<0.03
3/8/2018		0.011 (J)	
7/12/2018		0.0084 (J)	
11/6/2018			<0.03
11/7/2018		<0.05	
1/28/2019			
1/30/2019			
8/27/2019			<0.03
8/28/2019		0.0092 (J)	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.03
10/16/2019		0.0094 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.03
3/9/2020		0.0077 (J)	
8/11/2020			0.0019 (J)
8/13/2020		0.0085 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.0089 (J)	<0.03
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.03
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.0083 (J)	
9/9/2021		0.0091 (J)	<0.03
9/13/2021			
9/14/2021			
9/15/2021	0.0012 (J)		
9/16/2021			
1/18/2022			<0.03
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0013 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.0091 (J)	
9/7/2022			<0.03
9/8/2022		0.0083 (J)	
9/12/2022			
9/13/2022	0.0011 (J)		
9/14/2022			
9/16/2022			
1/31/2023	0.00089 (J)		<0.03
2/1/2023		0.0088 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00097 (J)		<0.03
9/7/2023		0.0085 (J)	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0022 (J)	0.0022 (J)			0.0031 (J)			
9/1/2016				<0.03					0.0034 (J)
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)		0.0034 (J)
12/8/2016								<0.03	
3/28/2017	0.0025 (J)								
3/29/2017		0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)			0.0031 (J)
3/30/2017					0.0035 (J)		0.0061 (J)	<0.03	
5/11/2017									
5/12/2017	0.0016 (J)								
6/15/2017									
6/16/2017	0.0016 (J)								
7/11/2017	<0.05								
7/12/2017		0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03	0.0032 (J)
10/24/2017	<0.05	0.0022 (J)	0.0024 (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	0.0013 (J)	0.0037 (J)	0.0022 (J)	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)
11/6/2018	<0.05	<0.05	<0.05						
11/7/2018				<0.03	<0.05	<0.05	<0.05 (O)	<0.03	<0.05
8/27/2019	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)		0.0032 (J)
8/29/2019									
9/17/2019				0.0011 (J)					
10/15/2019	0.0012 (J)	0.0051 (J)	0.0019 (J)	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	0.0011 (J)		0.0023 (J)	<0.03					
3/3/2020		0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)		0.0034 (J)
3/4/2020								0.0011 (J)	
8/11/2020	0.0015 (J)	0.0033 (J)	0.0028 (J)	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	0.0012 (J)		0.0019 (J)	<0.03		0.0038 (J)			0.0034 (J)
9/23/2020					0.0033 (J)		0.006 (J)		
9/24/2020		0.0049 (J)						0.00096 (J)	
3/1/2021	0.0012 (J)								
3/2/2021			0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)		0.003 (J)
3/3/2021				<0.03				0.0011 (J)	
3/4/2021		0.0042 (J)							
9/8/2021	0.0013 (J)								
9/9/2021			0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)		0.0035 (J)
9/10/2021		0.0051 (J)							
9/13/2021								<0.03	
1/18/2022	0.0013 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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)			0.0031 (J)
1/26/2022		0.0059 (J)							
9/7/2022	0.0012 (J)								
9/13/2022						0.0043 (J)	0.0057 (J)		
9/14/2022								<0.03	0.0032 (J)
9/15/2022		0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)				
9/20/2022									
1/31/2023	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	0.0026 (J)
2/7/2023									
9/6/2023	0.0013 (J)								
9/8/2023			0.0017 (J)		0.0031 (J)	0.0041 (J)	0.0051 (J)		0.0024 (J)
9/11/2023		0.0043 (J)		<0.03					
9/13/2023								<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0021 (J)	0.0057 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.005 (J)	
12/8/2016			0.0054 (J)
3/28/2017			
3/29/2017		0.0021 (J)	
3/30/2017	0.0807		0.0065 (J)
5/11/2017	0.085		
5/12/2017			
6/15/2017	0.0781		
6/16/2017			
7/11/2017	0.0731		
7/12/2017		0.0019 (J)	0.0057 (J)
10/24/2017	0.0995		
10/25/2017		0.0022 (J)	0.006 (J)
11/15/2017			
2/27/2018	0.0875		
2/28/2018		0.0019 (J)	0.0061 (J)
7/11/2018	0.033 (J)	0.0022 (J)	0.0057 (J)
11/6/2018	<0.05		
11/7/2018		<0.05	<0.05
8/27/2019	0.032		
8/28/2019			
8/29/2019		0.0093 (J)	0.0061 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.029 (J)	0.0075 (J)	0.0063 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.026 (J)		0.0065 (J)
3/4/2020		0.019 (J)	
8/11/2020	0.028 (J)		
8/12/2020			
8/13/2020		0.012 (J)	
8/14/2020			0.0058 (J)
9/22/2020		0.0026 (J)	
9/23/2020	0.022 (J)		
9/24/2020			0.0062 (J)
3/1/2021			
3/2/2021	0.023 (J)	0.011 (J)	
3/3/2021			0.0054 (J)
3/4/2021			
9/8/2021			
9/9/2021	0.024 (J)		0.006 (J)
9/10/2021		0.0023 (J)	
9/13/2021			
1/18/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.024 (J)		0.0058 (J)
1/21/2022		0.012 (J)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0096 (J)	0.0069 (J)
9/20/2022	0.021 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.017 (J)		
2/7/2023		0.013 (J)	0.0056 (J)
9/6/2023			
9/8/2023			
9/11/2023		0.011 (J)	0.0055 (J)
9/13/2023	0.017 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.0046 (J)								
9/7/2016				0.012 (J)					
12/6/2016							0.0046 (J)	0.0066 (J)	0.0242 (J)
12/8/2016	0.0047 (J)			0.0118 (J)	0.0667	0.122			
3/28/2017			0.0031 (J)				0.0028 (J)		0.0249 (J)
3/29/2017	0.0043 (J)							0.0059 (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)	0.0045 (J)	0.022 (J)
7/12/2017		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)	0.0281 (J)
10/25/2017	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)	0.031 (J)
2/28/2018	0.0043 (J)			0.0122 (J)					
3/1/2018		0.0759			0.0772				
3/2/2018						0.129			
7/11/2018				0.01 (J)					0.028 (J)
7/12/2018	0.0036 (J)	0.0047 (J)			0.073	0.12			
11/6/2018			<0.05				<0.05	<0.05	<0.05
11/7/2018	<0.05			<0.05	0.082	0.12			
11/8/2018		<0.05							
8/27/2019			0.0033 (J)				0.008 (J)		0.031
8/28/2019				0.01 (J)				0.0048 (J)	
8/29/2019	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				0.011 (J)	0.066				0.029 (J)
10/18/2019	0.0041 (J)	0.0039 (J)				0.11			
3/2/2020			0.0035 (J)				0.0079 (J)		
3/3/2020	0.0046 (J)							0.0052 (J)	0.028 (J)
3/4/2020		0.004 (J)		0.0091 (J)	0.063	0.12			
8/11/2020									0.032
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	0.0039 (J)								
9/22/2020			0.0026 (J)	0.0099 (J)			0.0065 (J)		0.025 (J)
9/23/2020					0.046	0.1		0.0045 (J)	
9/24/2020	0.0037 (J)	0.0045 (J)							
3/1/2021			0.0035 (J)						
3/2/2021							0.0064 (J)	0.0046 (J)	0.028 (J)
3/3/2021	0.0038 (J)	0.014 (J)		0.0079 (J)	0.049	0.096			
9/9/2021		0.0081 (J)							
9/10/2021	0.0039 (J)		0.0035 (J)		0.053	0.095	0.0071 (J)		0.027 (J)
9/13/2021				0.015 (J)				0.0034 (J)	
1/20/2022	0.0032 (J)	0.0029 (J)		0.0069 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
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									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)	
9/16/2022	0.0033 (J)								
9/19/2022			0.0037 (J)						0.023 (J)
9/20/2022		0.0051 (J)							
2/1/2023				0.0068 (J)					
2/3/2023			0.0036 (J)		0.048	0.089			0.025 (J)
2/6/2023	0.0034 (J)	0.0022 (J)							
2/7/2023							0.0072 (J)	0.0036 (J)	
3/16/2023									
3/21/2023									
4/10/2023									
9/11/2023	0.0031 (J)	0.0036 (J)							
9/12/2023					0.034			0.0045 (J)	
9/13/2023			0.004 (J)	0.0087 (J)		0.096	0.0081 (J)		
9/14/2023									

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/16/2023	0.074
3/21/2023	0.078
4/10/2023	0.034
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.031

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.00011 (J)								
9/24/2020									
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	
3/3/2021									
3/4/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2021		0.00014 (J)						<0.0002	
3/12/2021									
4/15/2021									<0.0002
9/9/2021									
9/10/2021			<0.0002						
9/13/2021	<0.0002	<0.0002			<0.0002	<0.0002			
9/14/2021				<0.0002			<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									<0.0002
2/2/2023	<0.0002		<0.0002						
2/3/2023		0.00029		<0.0002					<0.0002
2/6/2023						<0.0002			
2/7/2023					<0.0002		<0.0002	<0.0002	
9/6/2023	<0.0002								
9/7/2023									
9/8/2023		<0.0002							
9/11/2023			<0.0002		<0.0002				
9/12/2023						<0.0002			<0.0002
9/13/2023				<0.0002			<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/25/2020			
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/12/2021			<0.0002
4/15/2021			
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021			
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			<0.0002
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.0002	
9/19/2022			
2/2/2023			<0.0002
2/3/2023			
2/6/2023	<0.0002		
2/7/2023		0.00034	
9/6/2023			
9/7/2023	<0.0002		<0.0002
9/8/2023		<0.0002	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.0002								
1/30/2019		<0.0002							
8/27/2019									
8/28/2019									
9/11/2019	<0.0002								
9/12/2019		<0.0002							
9/18/2019			<0.0002						
9/23/2019				<0.0002					
10/15/2019									
10/16/2019									
10/21/2019		<0.0002		<0.0002	<0.0002				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/22/2020									
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/1/2021									
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
3/12/2021									
9/9/2021									
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				
1/18/2022									
1/20/2022	<0.0002		<0.0002						
1/21/2022					<0.0002				
1/25/2022		<0.0002		<0.0002					
1/26/2022							<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.0002			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.00015 (J)	0.00016 (J)	
9/13/2022			<0.0002		<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									<0.0002
2/2/2023	<0.0002								
2/3/2023					<0.0002				
2/6/2023			<0.0002						
2/7/2023		0.00029		<0.0002		<0.0002			
9/6/2023							<0.0002	<0.0002	<0.0002
9/7/2023	<0.0002								
9/11/2023		<0.0002		<0.0002					
9/12/2023			<0.0002		<0.0002	<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.0002	<0.0002
5/11/2017		<0.0002	
5/15/2017			<0.0002
6/15/2017		8E-05 (J)	7E-05 (J)
7/11/2017			<0.0002
7/12/2017		<0.0002	
8/8/2017			<0.0002
10/24/2017		<0.0002	<0.0002
2/27/2018			<0.0002
3/8/2018		<0.0002	
7/12/2018		<0.0002	
11/6/2018			<0.0002
11/7/2018		<0.0002	
1/28/2019			
1/30/2019			
8/27/2019			<0.0002
8/28/2019		<0.0002	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0002
10/16/2019		<0.0002	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.0002
3/9/2020		<0.0002	
8/11/2020			<0.0002
8/13/2020		<0.0002	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0002	<0.0002
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.0002
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0002	
9/9/2021		<0.0002	<0.0002
9/13/2021			
9/14/2021			
9/15/2021	<0.0002		
9/16/2021			
1/18/2022			<0.0002
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		<0.0002	
9/7/2022			<0.0002
9/8/2022		<0.0002	
9/12/2022			
9/13/2022	<0.0002		
9/14/2022			
9/16/2022			
1/31/2023	<0.0002		<0.0002
2/1/2023		<0.0002	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.0002		<0.0002
9/7/2023		<0.0002	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		7E-05 (J)	5E-05 (J)			5E-05 (J)			
9/1/2016				9E-05 (J)					4E-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		5E-05 (J)
12/8/2016								<0.0002	
3/28/2017	<0.0002								
3/29/2017		8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)			9E-05 (J)
3/30/2017					7E-05 (J)		6E-05 (J)	0.00012 (J)	
5/11/2017									
5/12/2017	6E-05 (J)								
6/15/2017									
6/16/2017	7E-05 (J)								
7/11/2017	<0.0002								
7/12/2017		<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002	5E-05 (J)	<0.0002
10/24/2017	<0.0002	<0.0002	<0.0002						
10/25/2017				6E-05 (J)		<0.0002	<0.0002	5E-05 (J)	<0.0002
11/15/2017					<0.0002				
2/27/2018	<0.0002	<0.0002	<0.0002	6E-05 (J)		<0.0002			
2/28/2018					<0.0002		<0.0002	<0.0002	<0.0002
7/11/2018				3.6E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002	<0.0002						
11/7/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		0.00016 (J)	
8/28/2019					<0.0002		<0.0002		<0.0002
8/29/2019									
9/17/2019				<0.0002					
10/15/2019	<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								<0.0002	
3/2/2020	<0.0002		<0.0002	<0.0002					
3/3/2020		<0.0002			<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	9E-05 (J)								
3/2/2021			<0.0002		<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							
9/13/2021								8.6E-05 (J)	
1/18/2022	0.00015 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							<0.0002	<0.0002	
1/25/2022			<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
1/26/2022		<0.0002							
9/7/2022	0.00013 (J)								
9/13/2022						<0.0002	<0.0002		
9/14/2022								<0.0002	<0.0002
9/15/2022		<0.0002	<0.0002	<0.0002	<0.0002				
9/20/2022									
1/31/2023	<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)	0.00013 (J)
2/7/2023									
9/6/2023	<0.0002								
9/8/2023			0.00048		<0.0002	<0.0002	<0.0002		<0.0002
9/11/2023		0.0021		<0.0002					
9/13/2023								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.0002	6E-05 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		8E-05 (J)	
12/8/2016			<0.0002
3/28/2017			
3/29/2017		8E-05 (J)	
3/30/2017	7E-05 (J)		8E-05 (J)
5/11/2017	8.3E-05 (J)		
5/12/2017			
6/15/2017	8E-05 (J)		
6/16/2017			
7/11/2017	<0.0002		
7/12/2017		<0.0002	6E-05 (J)
10/24/2017	<0.0002		
10/25/2017		<0.0002	5E-05 (J)
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			
8/29/2019		<0.0002	<0.0002
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.0002	<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		
8/12/2020			
8/13/2020		<0.0002	
8/14/2020			<0.0002
9/22/2020		<0.0002	
9/23/2020	<0.0002		
9/24/2020			0.00012 (J)
3/1/2021			
3/2/2021	<0.0002	9E-05 (J)	
3/3/2021			<0.0002
3/4/2021			
9/8/2021			
9/9/2021	<0.0002		<0.0002
9/10/2021		<0.0002	
9/13/2021			
1/18/2022			

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	<0.0002		<0.0002
1/21/2022		<0.0002	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.0002	<0.0002
9/20/2022	<0.0002		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0002		
2/7/2023		<0.0002	<0.0002
9/6/2023			
9/8/2023			
9/11/2023		<0.0002	<0.0002
9/13/2023	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								9E-05 (J)	<0.0002
8/31/2016							0.00015 (J)		
9/1/2016					<0.0002	<0.0002			
9/2/2016	5E-05 (J)								
9/7/2016				<0.0002					
12/6/2016							0.00012 (J)	0.0001 (J)	5E-05 (J)
12/8/2016	<0.0002			<0.0002	<0.0002	<0.0002			
3/28/2017			<0.0002				0.00017 (J)		<0.0002
3/29/2017	0.0001 (J)							0.00012 (J)	
3/30/2017		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)	<0.0002
7/12/2017		0.00012 (J)							
7/13/2017	<0.0002			<0.0002	<0.0002	<0.0002			
10/24/2017			<0.0002					<0.0002	<0.0002
10/25/2017	<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)	4.2E-05 (J)
2/28/2018	<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	<0.0002
11/7/2018	<0.0002			<0.0002	<0.0002	<0.0002			
11/8/2018		<0.0002							
8/27/2019			<0.0002				0.00016 (J)		0.00021 (J)
8/28/2019				<0.0002				<0.0002	
8/29/2019	<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				0.00042 (J)
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									0.00026
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								
9/22/2020			<0.0002	<0.0002			0.0002 (J)		0.00013 (J)
9/23/2020					<0.0002	<0.0002		<0.0002	
9/24/2020	<0.0002	0.0002 (J)							
3/1/2021			<0.0002						
3/2/2021							9.4E-05 (J)	<0.0002	0.00017 (J)
3/3/2021	<0.0002	0.00033		<0.0002	<0.0002	<0.0002			
9/9/2021		0.00011 (J)							
9/10/2021	0.00011 (J)		0.00013 (J)		<0.0002	<0.0002	0.0003		0.00014 (J)
9/13/2021				<0.0002				<0.0002	
1/20/2022	<0.0002	<0.0002		<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.0002				
1/24/2022			0.00022			<0.0002	0.00028		
1/25/2022								<0.0002	
1/26/2022									0.00014 (J)
9/13/2022				<0.0002	<0.0002	<0.0002			
9/14/2022							0.00022		
9/15/2022								<0.0002	
9/16/2022	<0.0002								
9/19/2022			<0.0002						0.0002
9/20/2022		<0.0002							
2/1/2023				<0.0002					
2/3/2023			<0.0002		<0.0002	<0.0002			0.00017 (J)
2/6/2023	0.00014 (J)	<0.0002							
2/7/2023							0.00026	<0.0002	
9/11/2023	<0.0002	<0.0002							
9/12/2023					<0.0002			0.00013 (J)	
9/13/2023			<0.0002	<0.0002		<0.0002	0.00028		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.01								
9/24/2020									
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)	
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								
3/12/2021									
4/15/2021									0.00089 (J)
9/9/2021									
9/10/2021			<0.01						
9/13/2021	<0.01	<0.01			<0.01	<0.01			
9/14/2021				<0.01			<0.01	0.013	<0.01
1/20/2022									<0.01
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									<0.01
2/2/2023	0.19		<0.01						
2/3/2023		<0.01		<0.01					<0.01
2/6/2023						<0.01			
2/7/2023					<0.01		<0.01	0.0077 (J)	
9/6/2023	<0.01								
9/7/2023									
9/8/2023		<0.01							
9/11/2023			<0.01		<0.01				
9/12/2023						<0.01			<0.01
9/13/2023				0.00092 (J)			0.00078 (J)	0.0071 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/25/2020			
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/15/2021			
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021			
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			<0.01
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.01	
9/19/2022			
2/2/2023			<0.01
2/3/2023			
2/6/2023	0.0011 (J)		
2/7/2023		<0.01	
9/6/2023			
9/7/2023	0.001 (J)		<0.01
9/8/2023		<0.01	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.01								
1/30/2019		<0.01							
8/27/2019									
8/28/2019									
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/15/2019									
10/16/2019									
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/22/2020									
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/1/2021									
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
3/12/2021									
9/9/2021									
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				
1/18/2022									
1/20/2022	<0.01		<0.01						
1/21/2022					<0.01				
1/25/2022		<0.01		<0.01					
1/26/2022							<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.01			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.01	<0.01	
9/13/2022			<0.01		<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									<0.01
2/2/2023	<0.01								
2/3/2023					<0.01				
2/6/2023			<0.01						
2/7/2023		<0.01		<0.01		<0.01			
9/6/2023							<0.01	<0.01	<0.01
9/7/2023	<0.01								
9/11/2023		<0.01		0.00081 (J)					
9/12/2023			<0.01		<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.0242	<0.01
5/11/2017		0.0375	
5/15/2017			<0.01
6/15/2017		0.0409	<0.01
7/11/2017			<0.01
7/12/2017		0.0321	
8/8/2017			<0.01
10/24/2017		0.0227	<0.01
2/27/2018			<0.01
3/8/2018		0.035	
7/12/2018		0.034	
11/6/2018			<0.01
11/7/2018		0.029	
1/28/2019			
1/30/2019			
8/27/2019			<0.01
8/28/2019		0.031	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.01
10/16/2019		0.037	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.01
3/9/2020		0.026	
8/11/2020			<0.01
8/13/2020		0.012	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.039	<0.01
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.01
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.018	
9/9/2021		0.025	<0.01
9/13/2021			
9/14/2021			
9/15/2021	<0.01		
9/16/2021			
1/18/2022			<0.01
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.0015 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.026	
9/7/2022			<0.01
9/8/2022		0.027	
9/12/2022			
9/13/2022	0.00084 (J)		
9/14/2022			
9/16/2022			
1/31/2023	0.0014 (J)		<0.01
2/1/2023		0.023	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00075 (J)		<0.01
9/7/2023		0.022	
9/11/2023			
9/12/2023			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.01	<0.01			<0.01			
9/1/2016				<0.01					<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		<0.01
12/8/2016								<0.01	
3/28/2017	0.0009 (J)								
3/29/2017		<0.01	<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								
6/15/2017									
6/16/2017	<0.01								
7/11/2017	<0.01								
7/12/2017		<0.01	<0.01	<0.01	0.0323	<0.01	<0.01	<0.01	<0.01
10/24/2017	<0.01	<0.01	<0.01						
10/25/2017				<0.01		<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			
2/28/2018					0.0093 (J)		<0.01	<0.01	<0.01
7/11/2018				<0.01		<0.01	<0.01	<0.01	<0.01
11/6/2018	<0.01	<0.01	<0.01						
11/7/2018				<0.01	0.018	<0.01	<0.01	<0.01	<0.01
8/27/2019	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01	
8/28/2019					0.015		<0.01		<0.01
8/29/2019									
9/17/2019				<0.01					
10/15/2019	<0.01	<0.01	<0.01	<0.01					
10/16/2019					0.014	<0.01			<0.01
10/17/2019							<0.01		
10/18/2019								<0.01	
3/2/2020	<0.01		<0.01	<0.01					
3/3/2020		<0.01			0.018	<0.01	<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								
3/2/2021			<0.01		0.011	<0.01	<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	0.011	<0.01	<0.01		<0.01
9/10/2021		<0.01							
9/13/2021								<0.01	
1/18/2022	<0.01								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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			<0.01
1/26/2022		<0.01							
9/7/2022	<0.01								
9/13/2022						<0.01	<0.01		
9/14/2022								<0.01	<0.01
9/15/2022		<0.01	<0.01	<0.01	0.0094 (J)				
9/20/2022									
1/31/2023	<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	<0.01
2/7/2023									
9/6/2023	<0.01								
9/8/2023			<0.01		0.0073 (J)	<0.01	<0.01		<0.01
9/11/2023		<0.01		<0.01					
9/13/2023								<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	<0.01
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.01	
12/8/2016			<0.01
3/28/2017			
3/29/2017		<0.01	
3/30/2017	0.0009 (J)		<0.01
5/11/2017	0.0009 (J)		
5/12/2017			
6/15/2017	<0.01		
6/16/2017			
7/11/2017	<0.01		
7/12/2017		<0.01	<0.01
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			
8/29/2019		<0.01	<0.01
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0018 (J)	<0.01	<0.01
10/18/2019			
3/2/2020			
3/3/2020	0.0022 (J)		<0.01
3/4/2020		<0.01	
8/11/2020	0.002 (J)		
8/12/2020			
8/13/2020		<0.01	
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	0.0021 (J)	<0.01	
3/3/2021			<0.01
3/4/2021			
9/8/2021			
9/9/2021	0.0023 (J)		<0.01
9/10/2021		<0.01	
9/13/2021			
1/18/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.0022 (J)		<0.01
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.01	<0.01
9/20/2022	0.0021 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0021 (J)		
2/7/2023		<0.01	<0.01
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.01
9/13/2023	0.0022 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.01	<0.01
8/31/2016							<0.01		
9/1/2016					<0.01	<0.01			
9/2/2016	<0.01								
9/7/2016				<0.01					
12/6/2016							<0.01	<0.01	<0.01
12/8/2016	<0.01			<0.01	<0.01	<0.01			
3/28/2017			0.008 (J)				<0.01		<0.01
3/29/2017	<0.01							<0.01	
3/30/2017		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	<0.01
7/12/2017		0.0092 (J)							
7/13/2017	<0.01			<0.01	<0.01	<0.01			
10/24/2017			0.0072 (J)					<0.01	<0.01
10/25/2017	<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	<0.01
2/28/2018	<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	<0.01
11/7/2018	<0.01			<0.01	<0.01	<0.01			
11/8/2018		0.012							
8/27/2019			0.0065 (J)				<0.01		<0.01
8/28/2019				<0.01				<0.01	
8/29/2019	<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									<0.01
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								
9/22/2020			0.0028 (J)	<0.01			<0.01		<0.01
9/23/2020					<0.01	<0.01		<0.01	
9/24/2020	<0.01	0.0088 (J)							
3/1/2021			0.0051 (J)						
3/2/2021							<0.01	<0.01	<0.01
3/3/2021	<0.01	0.0026 (J)		<0.01	<0.01	<0.01			
9/9/2021		0.01							
9/10/2021	<0.01		0.0052 (J)		<0.01	<0.01	<0.01		<0.01
9/13/2021				<0.01				<0.01	
1/20/2022	<0.01	0.0073 (J)		<0.01					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.01				
1/24/2022			0.0045 (J)			<0.01	<0.01		
1/25/2022								<0.01	
1/26/2022									<0.01
9/13/2022				<0.01	<0.01	<0.01			
9/14/2022							<0.01		
9/15/2022								<0.01	
9/16/2022	<0.01								
9/19/2022			0.0037 (J)						<0.01
9/20/2022		0.0095 (J)							
2/1/2023				<0.01					
2/3/2023			0.0035 (J)		<0.01	<0.01			<0.01
2/6/2023	<0.01	0.007 (J)							
2/7/2023							<0.01	<0.01	
9/11/2023	0.00097 (J)	0.0088 (J)							
9/12/2023					<0.01			<0.01	
9/13/2023			0.0034 (J)	<0.01		<0.01	<0.01		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.0034 (J)

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 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-111D	B-120D
9/11/2019									
10/21/2019									
8/3/2020	4.93								
8/13/2020									
8/17/2020	5.02								
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									5.46
9/9/2021									
9/10/2021			5.36						
9/13/2021	5.27	6.07			5.91	5.88			
9/14/2021				8.58			5.81	7.29	5.3
1/20/2022									5.28
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								
9/9/2022									
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									5.21
2/2/2023	5.3		5.47						
2/3/2023		5.95		6.17					5.59
2/6/2023						5.9			
2/7/2023					5.86		5.92	7.3	
9/6/2023	5.25								
9/7/2023									
9/8/2023		6.04							
9/11/2023			5.39		5.8				
9/12/2023						5.85			5.27
9/13/2023				6.44			5.88	7.01	

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/3/2020			
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/25/2020			
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/15/2021			
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021			
1/20/2022			6.32
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			6.22
9/9/2022			6.22 (D)
9/13/2022			
9/14/2022	6.07		
9/15/2022			
9/16/2022		4.56	
9/19/2022			
2/2/2023			6.33
2/3/2023			
2/6/2023	6.08		
2/7/2023		4.55	
9/6/2023			
9/7/2023	5.94		6.38
9/8/2023		4.6	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	5.39								
1/30/2019		6.83							
3/12/2019									
3/13/2019									
8/27/2019									
8/28/2019									
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/15/2019									
10/16/2019									
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			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			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/1/2021									
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/9/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/18/2022									
1/20/2022	5.46		6.48						
1/21/2022					5.56				
1/25/2022		6.35		5.07					
1/26/2022							4.5	4.74	6.52
1/27/2022						5.5			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							4.56	4.7	
9/13/2022			6.34		5.6				5.54
9/14/2022	5.31								
9/16/2022		6.6		5.02 (D)		5.47			
1/31/2023							4.48	4.68	
2/1/2023									5.47
2/2/2023	5.85								
2/3/2023					5.59				
2/6/2023			6.53						
2/7/2023		6.22		5.28		5.59			
9/6/2023							4.71	4.85	5.61
9/7/2023	5.27								
9/11/2023		6.22		5.6					
9/12/2023			6.55		5.66	5.41			

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		6.29	
5/11/2017		6.6	
5/15/2017			5.72
6/15/2017		6.41	5.74
7/11/2017			5.62
7/12/2017		5.91	
8/8/2017			5.6
10/24/2017		5.51	5.71
11/15/2017		6.5	
2/27/2018			5.5
3/8/2018		6.18	
7/10/2018			5.44
7/12/2018		6.33	
11/6/2018			5.71
11/7/2018		6.22	
1/28/2019			
1/30/2019			
3/12/2019			5.52
3/13/2019		6	
8/27/2019			5.53
8/28/2019		6.04	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			5.61
10/16/2019		6.69	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			5.54
3/9/2020		6.41	
8/11/2020			5.86
8/13/2020		6.17	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		6.43	6.01
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			5.43
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		6.38	
3/15/2021	6.3		
9/9/2021		6.41	5.5
9/13/2021			
9/14/2021			
9/15/2021	5.4		
9/16/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/18/2022			5.5
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.52		
1/27/2022			
1/28/2022		6.35	
9/7/2022			5.6
9/8/2022		6.32	
9/12/2022			
9/13/2022	6.18		
9/14/2022			
9/16/2022			
1/31/2023	6.76		5.59
2/1/2023		6.42	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	6.16	6.51	5.5
9/7/2023			
9/11/2023			
9/12/2023			

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		4.58	5.83			5.68			
9/1/2016			5.67						4.64
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		4.63
12/8/2016								5.12	
3/28/2017	5.94								
3/29/2017		4.62	5.74	5.61		5.68			4.7
3/30/2017					5.94		5.8	5.08	
5/11/2017									
5/12/2017	5.46								
6/15/2017									
6/16/2017	5.81								
7/11/2017	5.74								
7/12/2017		4.81	5.82	5.81	5.84	5.66	5.81	5	4.76
10/24/2017	5.86	4.8	5.79						
10/25/2017				6.07		6.18	5.9	5.73	4.66
11/15/2017	5.77	4.9			5.87				
2/27/2018	5.66	5.55	5.94	5.73		5.63			
2/28/2018					5.99		5.8	5.22	4.63
7/10/2018	5.63	5.27	5.62		5.92				
7/11/2018						5.61	5.87	5.07	4.71
11/6/2018	5.79	5.3	5.69						
11/7/2018				5.85	5.87	5.58	5.9	5.09	4.69
3/12/2019	5.74	5.26	5.7	5.98					
3/13/2019					5.79	5.61		5.07	4.76
3/14/2019							5.77		
8/27/2019	5.87	5.14	5.55	5.55		5.58		4.96	
8/28/2019					5.71		5.88		4.85
8/29/2019									
9/17/2019				5.6					
10/15/2019	5.88	4.96	5.6	5.89					
10/16/2019					5.69	5.66			4.87
10/17/2019							5.76		
10/18/2019								5.08	
3/2/2020	5.77		5.62	6.13					
3/3/2020		4.77			5.71	5.73	5.79	5.07	4.89
3/4/2020								5.07	
8/11/2020	5.96	4.92	5.68	5.69		5.73			4.9
8/12/2020					5.68				
8/13/2020							6.58		
8/14/2020								5.01	
9/22/2020	6.06		5.54	6		5.7			4.91
9/23/2020					5.72		5.85		
9/24/2020		4.89						5.1	
3/1/2021	5.8								
3/2/2021			5.59		5.68	5.69	5.81		4.84
3/3/2021				6.13				5.23	
3/4/2021		5.27							
9/8/2021	5.76								

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/9/2021			5.59	6.07	5.69	5.7	5.83		4.82
9/10/2021		5.05							
9/13/2021								5.06	
1/18/2022	5.51								
1/20/2022									
1/21/2022									
1/24/2022							6.06	5.15	
1/25/2022			5.54	5.96	4.68	5.69			4.79
1/26/2022		4.9							
9/7/2022	5.65								
9/13/2022						5.71	5.82		
9/14/2022								5.08	4.81
9/15/2022		4.87	5.52	5.75	5.56				
9/20/2022									
1/31/2023	5.78								
2/1/2023					5.54	5.87			
2/2/2023		4.67					5.86		
2/6/2023			5.45	5.9				5.13	4.82
2/7/2023									
9/6/2023	5.82								
9/8/2023			5.44		5.59	5.67	5.81		4.78
9/11/2023		4.56		6.1					
9/13/2023								5.04	

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		4.7	5.7
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016			
12/8/2016			5.64
3/28/2017			
3/29/2017		4.7	
3/30/2017	5.75		5.79
5/11/2017	5.67		
5/12/2017			
6/15/2017	5.75		
6/16/2017			
7/11/2017	5.87		
7/12/2017		4.67	5.71
10/24/2017	5.82		
10/25/2017		4.71	5.68
11/15/2017			
2/27/2018	5.85		
2/28/2018		4.51	5.71
7/10/2018			
7/11/2018	5.85	4.68	
11/6/2018	5.88		
11/7/2018		4.64	5.61
3/12/2019	5.94		
3/13/2019		4.65	5.62
3/14/2019			
8/27/2019	5.94		
8/28/2019			
8/29/2019		4.64	5.61
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	6.16	4.64	5.57
10/18/2019			
3/2/2020			
3/3/2020	5.94		5.65
3/4/2020		4.22	
8/11/2020	6.04		
8/12/2020			
8/13/2020		4.36	
8/14/2020			5.66
9/22/2020		4.66	
9/23/2020	5.99		
9/24/2020			5.64
3/1/2021			
3/2/2021	6.01	4.45	
3/3/2021			5.63
3/4/2021			
9/8/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/9/2021	6		5.73
9/10/2021		4.67	
9/13/2021			
1/18/2022			
1/20/2022	5.93		5.73
1/21/2022		4.47	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		4.58	5.69
9/20/2022	5.98		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	5.17		
2/7/2023		4.33	5.7
9/6/2023			
9/8/2023			
9/11/2023		4.06	5.61
9/13/2023	6.06		

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								5.33	4.08
8/31/2016							4.31		
9/1/2016					5.11	4.7			
9/2/2016	5.74								
9/7/2016				5.35					
12/6/2016							4.43	5.39	4.15
12/8/2016	6.03			5.41	5.71	4.58			
3/28/2017			6.01				4.44		4.16
3/29/2017	5.77							5.23	
3/30/2017		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	4.23
7/12/2017		5.97							
7/13/2017	5.71			5.27	4.95	4.3			
10/24/2017			5.99					5.05	4.06
10/25/2017	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	4.04
2/28/2018	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					4.03
7/12/2018	5.62	5.97			4.33	4.36			
11/6/2018			5.97				4.89	5.13	4
11/7/2018	5.71			5.18	4.48	4.23			
11/8/2018		5.96							
3/12/2019			5.85				4.42	5.07	3.98
3/14/2019	5.67	5.99		5.1	3.88	4.12			
8/27/2019			5.84				4.83		4.02
8/28/2019				5.3				5.11	
8/29/2019	5.66	5.96			4.35	4.28			
10/15/2019			5.98						
10/16/2019							4.78	5.33	
10/17/2019				5.2	4.6				4.02
10/18/2019	5.61	5.99				4.22			
3/2/2020			5.88				4.8		
3/3/2020	5.74							5.12	4.07
3/4/2020		5.68		5.18	3.86	4.27			
8/11/2020									4
8/12/2020			5.93		4.43		4.84	5.36	
8/13/2020		6		5.34		4.26			
8/14/2020	5.76								
9/22/2020			5.88	5.76			4.83		4
9/23/2020					4.4	4.64		5.21	
9/24/2020	5.69	6.19							
3/1/2021			5.82						
3/2/2021							5	6.6	3.99
3/3/2021	5.71	5.85		5.3	3.98	4.14			

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/9/2021		6							
9/10/2021	5.65		5.83		4.1	4.3	4.89		3.98
9/13/2021				5.15				5.05	
1/20/2022	5.72	5.95		5.27					
1/21/2022					3.72				
1/24/2022			5.79			4.03	4.79		
1/25/2022								5.16	
1/26/2022									3.68
9/13/2022				5.04	4.15	4.25			
9/14/2022							4.75		
9/15/2022								5.2	
9/16/2022	5.62								
9/19/2022			5.76						3.98
9/20/2022		6							
2/1/2023				5.17					
2/3/2023			5.77		3.88	4.2			4.02
2/6/2023	5.84	5.97							
2/7/2023							4.89	5.23	
3/16/2023									
3/21/2023									
4/10/2023									
9/11/2023	5.57	5.99							
9/12/2023				5.04	3.99			5.02	
9/13/2023			5.64			4.06	4.74		
9/14/2023									

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/16/2023	5.66
3/21/2023	6.53
4/10/2023	5.98
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	5.84

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.0016 (J)
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	<0.005			<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	<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									0.0038 (J)
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		0.0018 (J)					0.005 (J)
2/6/2023						<0.005			
2/7/2023					<0.005		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			0.0052
9/13/2023				0.0016 (J)			<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.011	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021			
1/20/2022			<0.005
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			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.01	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		0.01	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		0.0087	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018		<0.005							
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
10/24/2019			<0.005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<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						
9/25/2020					0.019	0.0033 (J)			
9/28/2020				0.0021 (J)				0.036	
3/1/2021									
3/4/2021			0.0017 (J)		0.024				
3/5/2021						0.0033 (J)			
3/9/2021								0.0099 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.0021 (J)			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				
1/18/2022									
1/20/2022	<0.005		<0.005						
1/21/2022					0.027				
1/25/2022		<0.005		0.002 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.0039 (J)	0.0063	0.0015 (J)
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.012	0.013	
9/13/2022			<0.005		0.024				0.0032 (J)
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									0.0036 (J)
2/2/2023	<0.005								
2/3/2023					0.021				
2/6/2023			<0.005						
2/7/2023		<0.005		0.0025 (J)		0.0024 (J)			
9/6/2023							0.0049 (J)	0.0071	0.0031 (J)
9/7/2023	<0.005								
9/11/2023		<0.005		0.0018 (J)					
9/12/2023			<0.005		0.02	0.0027 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.005	<0.005
5/11/2017		<0.005	
5/15/2017			<0.005
6/15/2017		<0.005	<0.005
7/11/2017			<0.005
7/12/2017		<0.005	
8/8/2017			<0.005
10/24/2017		<0.005	<0.005
2/19/2018			
2/27/2018			<0.005
3/8/2018		<0.005	
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.005
10/16/2019		<0.005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.005
3/9/2020		<0.005	
8/11/2020			<0.005
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.005	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0033 (J)		
9/16/2021			
1/18/2022			<0.005
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.005		
1/27/2022			
1/28/2022		<0.005	
9/7/2022			<0.005
9/8/2022		<0.005	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		<0.005	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0366	<0.005			0.0016 (J)			
9/1/2016				0.0017 (J)					0.0093 (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		<0.01
12/8/2016								0.0087 (J)	
3/28/2017	<0.005								
3/29/2017		0.0286	<0.005	0.0017 (J)		<0.005			0.0071 (J)
3/30/2017					0.0015 (J)		<0.005	0.0099 (J)	
5/11/2017									
5/12/2017	<0.005								
6/15/2017									
6/16/2017	<0.005								
7/11/2017	<0.005								
7/12/2017		0.0257	<0.005	0.0019 (J)	<0.01	<0.005	<0.005	0.0072 (J)	0.0065 (J)
10/24/2017	<0.005	0.0281	<0.005						
10/25/2017				0.0024 (J)		<0.005	<0.005	0.0078 (J)	0.0087 (J)
11/15/2017					0.0019 (J)				
2/27/2018	<0.005	0.0667	<0.005	<0.005		<0.005			
2/28/2018					<0.01		<0.005	<0.01	0.0114
7/11/2018				<0.005		0.002 (J)	<0.005	0.007 (J)	0.0036 (J)
11/6/2018	<0.005	0.049	<0.005						
11/7/2018				<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01	<0.01 (J)
8/27/2019	<0.005	0.015	<0.005	<0.005		<0.005		0.0073 (J)	
8/28/2019					0.0039 (J)		<0.005		0.004 (J)
8/29/2019									
9/17/2019				0.0014 (J)					
10/15/2019	<0.005	0.071	<0.005	0.0019 (J)					
10/16/2019					0.0031 (J)	0.0017 (J)			0.006 (J)
10/17/2019							<0.005		
10/18/2019								0.0093 (J)	
3/2/2020	<0.005		<0.005	<0.005					
3/3/2020		0.021			0.0062 (J)	0.0014 (J)	<0.005		0.0066 (J)
3/4/2020								0.0074 (J)	
8/11/2020	<0.005	0.023	<0.005	0.0019 (J)		<0.005			0.0096 (J)
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			0.0052 (J)
9/23/2020					0.0053 (J)		<0.005		
9/24/2020		0.074						0.015	
3/1/2021	<0.005								
3/2/2021			<0.005		0.006	<0.005	<0.005		0.0091
3/3/2021				<0.005				0.0072	
3/4/2021		0.05							
9/8/2021	<0.005								
9/9/2021			<0.005	<0.005	0.006	0.0017 (J)	<0.005		0.0083
9/10/2021		0.034							
9/13/2021								0.0071	
1/18/2022	<0.005								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
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)			0.0029 (J)
1/26/2022		0.015							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								0.0064	0.0073
9/15/2022		0.02	<0.005	<0.005	0.004 (J)				
9/20/2022									
1/31/2023	<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	0.0042 (J)
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		0.0029 (J)	0.0015 (J)	<0.005		0.0045 (J)
9/11/2023		0.038		<0.005					
9/13/2023								0.0065	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0671	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0056 (J)	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.0521	
3/30/2017	<0.005		<0.005
5/11/2017	<0.005		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		0.0483	<0.005
10/24/2017	<0.005		
10/25/2017		0.0506	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		0.0755	<0.005
7/11/2018	0.0045 (J)	0.022	<0.005
11/6/2018	<0.01 (J)		
11/7/2018		0.044	<0.005
8/27/2019	0.0069 (J)		
8/28/2019			
8/29/2019		0.029	<0.005
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0051 (J)	0.071	<0.005
10/18/2019			
3/2/2020			
3/3/2020	0.0047 (J)		<0.005
3/4/2020		0.071	
8/11/2020	0.0053 (J)		
8/12/2020			
8/13/2020		0.091	
8/14/2020			<0.005
9/22/2020		0.023	
9/23/2020	0.0046 (J)		
9/24/2020			<0.005
3/1/2021			
3/2/2021	0.0037 (J)	0.078	
3/3/2021			<0.005
3/4/2021			
9/8/2021			
9/9/2021	0.0031 (J)		<0.005
9/10/2021		0.031	
9/13/2021			
1/18/2022			

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.0031 (J)		<0.005
1/21/2022		0.041	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.062	<0.005
9/20/2022	0.0018 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0014 (J)		
2/7/2023		0.057	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.14	<0.005
9/13/2023	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0032 (J)	0.0833
8/31/2016							0.0182		
9/1/2016					0.0217	0.0084 (J)			
9/2/2016	<0.005								
9/7/2016				<0.005					
12/6/2016							0.012	<0.005	0.0065 (J)
12/8/2016	<0.005			<0.005	0.017	0.0084 (J)			
3/28/2017			<0.005				0.168		0.0954
3/29/2017	<0.005							0.0048 (J)	
3/30/2017		<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)	0.0561
7/12/2017		<0.005							
7/13/2017	<0.005			<0.005	0.0068 (J)	0.0062 (J)			
10/24/2017			<0.005					0.0069 (J)	0.0653
10/25/2017	<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	0.13
2/28/2018	<0.005			<0.005					
3/1/2018		<0.005			0.0124				
3/2/2018						<0.005			
7/11/2018				<0.005					0.045
7/12/2018	0.0017 (J)	<0.005			0.015	0.013			
11/6/2018			<0.005				<0.01 (J)	<0.01 (J)	0.12
11/7/2018	<0.005			<0.005	<0.01 (J)	<0.01 (J)			
11/8/2018		<0.005							
8/27/2019			<0.005				0.0031 (J)		0.067
8/28/2019				<0.005				<0.005	
8/29/2019	<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	0.0062 (J)				0.19
10/18/2019	<0.005	<0.005				0.005 (J)			
3/2/2020			<0.005				0.032		
3/3/2020	<0.005							0.0018 (J)	0.046
3/4/2020		<0.005		<0.005	0.0065 (J)	0.0061 (J)			
8/11/2020									0.11
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								
9/22/2020			<0.005	<0.005			0.04		0.23
9/23/2020					<0.01	0.0016 (J)		0.0028 (J)	
9/24/2020	<0.005	<0.005							
3/1/2021			<0.005						
3/2/2021							0.0081	<0.005	0.07
3/3/2021	<0.005	<0.005		<0.005	0.0039 (J)	0.0025 (J)			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		0.0035 (J)	0.0022 (J)	0.0099		0.057
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0016 (J)				
1/24/2022			<0.005			<0.005	0.0048 (J)		
1/25/2022								<0.005	
1/26/2022									0.025
9/13/2022				<0.005	0.0031 (J)	0.0019 (J)			
9/14/2022							0.019		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						0.048
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		0.0015 (J)	<0.005			0.031
2/6/2023	<0.005	<0.005							
2/7/2023							0.0082	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					0.0022 (J)			<0.005	
9/13/2023			<0.005	<0.005		<0.005	0.002 (J)		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
3/3/2021									
3/4/2021			256	474	170	309	309		
3/5/2021		236						270	
3/8/2021	388								
3/12/2021									
4/15/2021									556
9/9/2021									
9/10/2021			271						
9/13/2021	351	174			147	275			
9/14/2021				456			299	243	552
1/20/2022									475
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									489
2/2/2023	356		252						
2/3/2023		159		495					464
2/6/2023						299			
2/7/2023					127		313	229	
9/6/2023	322								
9/7/2023									
9/8/2023		353							
9/11/2023			233		118				
9/12/2023						308			420
9/13/2023				472			296	233	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/25/2020			
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/15/2021			
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021			
1/20/2022			50.3
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		185	
6/6/2022	97.7		
9/8/2022			45.8
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		234	
9/19/2022			
2/2/2023			52.1
2/3/2023			
2/6/2023	108		
2/7/2023		247	
9/6/2023			
9/7/2023	110		49.3
9/8/2023		233	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	87.9								
1/30/2019		292							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/1/2021									
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
3/12/2021									
9/9/2021									
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				
1/18/2022									
1/20/2022	49.4		<1						
1/21/2022					106				
1/25/2022		240		363					
1/26/2022							305	477	531
1/27/2022						371			
1/28/2022									
9/7/2022									
9/8/2022									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/12/2022							394	508	
9/13/2022			10		109				677
9/14/2022	93.3								
9/16/2022		285		404		433			
1/31/2023							393	536	
2/1/2023									648
2/2/2023	50.1								
2/3/2023					106				
2/6/2023			1.8						
2/7/2023		276		402		435			
9/6/2023							531	555	639
9/7/2023	87.1								
9/11/2023		260		373					
9/12/2023			<1		95.7	449			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		49	2.7
5/11/2017		21	
5/15/2017			1
6/15/2017		16	0.86 (J)
7/11/2017			1.4
7/12/2017		10	
8/8/2017			1.5
10/24/2017		15	1.4
11/15/2017		3.8	
2/27/2018			0.54 (J)
3/8/2018		9.7	
7/12/2018		8	
11/6/2018			<1 (J)
11/7/2018		12.8	
1/28/2019			
1/30/2019			
3/12/2019			0.35 (J)
3/13/2019		23.7	
10/15/2019			0.16 (J)
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	150		
3/2/2020			<1
3/9/2020		9.5	
9/22/2020		13.5	<1
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		8.8	
9/9/2021		11.9	<1
9/13/2021			
9/14/2021			
9/15/2021	325		
9/16/2021			
1/18/2022			<1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	18.4		
1/27/2022			
1/28/2022		13.1	
9/7/2022			<1
9/8/2022		12	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/12/2022			
9/13/2022	92.1		
9/14/2022			
9/16/2022			
1/31/2023	8.7		<1
2/1/2023		13.3	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	53.9		<1
9/7/2023		15.4	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		400	200			44			
9/1/2016				390					240
9/2/2016									
9/6/2016					170		180		
9/7/2016								230	
12/6/2016		190	190			45			
12/7/2016				350	160		180		250
12/8/2016								240	
3/28/2017	17								
3/29/2017		360	200	150		81 (O)			250
3/30/2017					180		210	260	
5/11/2017									
5/12/2017	17								
6/15/2017									
6/16/2017	11								
7/11/2017	11								
7/12/2017		390	210	350	170	44	170	230	250
10/24/2017	9.6	410	210						
10/25/2017				400		42	180	240	270
11/15/2017	7.8	390			180				
2/27/2018	7.4	335	220	356		41			
2/28/2018					43.5		168	203	244
7/11/2018				344		40.6	154	234	249
11/6/2018	7.3	356	302						
11/7/2018				298	162	41.3	168	248	266
3/12/2019	7	297	275	284					
3/13/2019					179	41.2		268	299
3/14/2019							195		
10/15/2019	7.4	263	273	270					
10/16/2019					167	42.1			323
10/17/2019							146		
10/18/2019								222	
3/2/2020	8.5		264	181					
3/3/2020		213			157	45.5	148		292
3/4/2020								222	
9/22/2020	6.5		267	183		40.2			310
9/23/2020					134		146		
9/24/2020		204						259	
3/1/2021	5.2								
3/2/2021			250		131	42.6	148		324
3/3/2021				203				237	
3/4/2021		240							
9/8/2021	6.1								
9/9/2021			247	126	127	42.3	139		315
9/10/2021		271							
9/13/2021								222	
1/18/2022	6.3								
1/20/2022									
1/21/2022									
1/24/2022							127	225	
1/25/2022			250	111	116	44.4			288
1/26/2022		241							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/7/2022	7								
9/13/2022						41.2	145		
9/14/2022								268	388
9/15/2022		229	287	191	133				
9/20/2022									
1/31/2023	6.8								
2/1/2023					97.5	45.9			
2/2/2023		235					137		
2/6/2023			273	142				262	379
2/7/2023									
9/6/2023	7.2								
9/8/2023			256		98.7	43.1	126		369
9/11/2023		258		132					
9/13/2023								255	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		580	300
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		650	
12/8/2016			280
3/28/2017			
3/29/2017		640	
3/30/2017	360		270
5/11/2017	340		
5/12/2017			
6/15/2017	300		
6/16/2017			
7/11/2017	330		
7/12/2017		630	290
10/24/2017	260		
10/25/2017		610	290
11/15/2017			
2/27/2018	189		
2/28/2018		584	267
7/11/2018	162	501	277
11/6/2018	190		
11/7/2018		554	286
3/12/2019	159		
3/13/2019		539	312
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	134	426	255
10/18/2019			
3/2/2020			
3/3/2020	118		269
3/4/2020		434	
9/22/2020		408	
9/23/2020	122		
9/24/2020			269
3/1/2021			
3/2/2021	112	458	
3/3/2021			264
3/4/2021			
9/8/2021			
9/9/2021	110		238
9/10/2021		399	
9/13/2021			
1/18/2022			
1/20/2022	101		223
1/21/2022		406	
1/24/2022			
1/25/2022			
1/26/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		462	268
9/20/2022	98.4		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	96.4		
2/7/2023		517	285
9/6/2023			
9/8/2023			
9/11/2023		552	268
9/13/2023	95.5		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								450	300
8/31/2016							400		
9/1/2016					470	540			
9/2/2016	140								
9/7/2016				370					
12/6/2016							460	480	320
12/8/2016	260			350	400	540			
3/28/2017			680				380		300
3/29/2017	290							660	
3/30/2017		220				550			
3/31/2017				380	350				
5/12/2017		220	680						
6/15/2017		200	730						
7/11/2017			740				440	440	320
7/12/2017		220							
7/13/2017	300			370	270	500			
10/24/2017			930					430	430
10/25/2017	290			370			510		
10/26/2017		220			290	510			
11/15/2017			820						
2/27/2018			811				453	340	327
2/28/2018	278			350					
3/1/2018		209			245				
3/2/2018						456			
7/11/2018				366					344
7/12/2018	197	202			240	409			
11/6/2018			902				556	307	438
11/7/2018	320			439	143	432			
11/8/2018		292							
3/12/2019			987				484	295	362
3/14/2019	297	266		404	238	450			
10/15/2019			888						
10/16/2019							493	235	
10/17/2019				321	179				331
10/18/2019	254	203				336			
3/2/2020			840				455		
3/3/2020	242							195	247
3/4/2020		204		329	176	368			
9/22/2020			800	320			423		282
9/23/2020					111	313		178	
9/24/2020	262	215							
3/1/2021			840						
3/2/2021							412	152	266
3/3/2021	252	221		329	143	312			
9/9/2021		217							
9/10/2021	234		823		123	272	449		264
9/13/2021				285				145	
1/20/2022	221	211		281					
1/21/2022					135				
1/24/2022			816			265	434		
1/25/2022								134	
1/26/2022									245

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				326	150	309			
9/14/2022							505		
9/15/2022								134	
9/16/2022	265								
9/19/2022			925						274
9/20/2022		242							
2/1/2023				313					
2/3/2023			949		138	301			277
2/6/2023	235	262							
2/7/2023							577	118	
3/21/2023									
4/10/2023									
9/11/2023	236	275							
9/12/2023					119			134	
9/13/2023			852	294		268	576		
9/14/2023									

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	436
4/10/2023	507
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	465

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.001								
9/24/2020									
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	
3/3/2021									
3/4/2021			<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2021		<0.001						<0.001	
3/8/2021	<0.001								
3/12/2021									
4/15/2021									<0.001
9/9/2021									
9/10/2021			<0.001						
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<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									<0.001
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					<0.001
2/6/2023						<0.001			
2/7/2023					<0.001		<0.001	<0.001	
9/6/2023	<0.001								
9/7/2023									
9/8/2023		<0.001							
9/11/2023			<0.001		<0.001				
9/12/2023						<0.001			<0.001
9/13/2023				0.00028 (J)			<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/25/2020			
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/15/2021			
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021			
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			<0.001
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.00024 (J)	
9/19/2022			
2/2/2023			<0.001
2/3/2023			
2/6/2023	<0.001		
2/7/2023		0.00028 (J)	
9/6/2023			
9/7/2023	<0.001		<0.001
9/8/2023		0.00021 (J)	
9/11/2023			
9/12/2023			
9/13/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.001								
1/30/2019		<0.001							
8/27/2019									
8/28/2019									
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<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						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/1/2021									
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
3/12/2021									
9/9/2021									
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/18/2022									
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					
1/26/2022							<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.001			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.0002 (J)	<0.001	
9/13/2022			<0.001		<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									<0.001
2/2/2023	<0.001								
2/3/2023					<0.001				
2/6/2023			<0.001						
2/7/2023		<0.001		<0.001		<0.001			
9/6/2023							<0.001	<0.001	<0.001
9/7/2023	<0.001								
9/11/2023		0.00021 (J)		<0.001					
9/12/2023			<0.001		<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.001	<0.001
5/11/2017		<0.001	
5/15/2017			<0.001
6/15/2017		<0.001	<0.001
7/11/2017			<0.001
7/12/2017		<0.001	
8/8/2017			<0.001
10/24/2017		<0.001	<0.001
2/27/2018			<0.001
3/8/2018		<0.001	
7/12/2018		<0.001	
11/6/2018			<0.001
11/7/2018		<0.001	
1/28/2019			
1/30/2019			
8/27/2019			<0.001
8/28/2019		<0.001	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.001
10/16/2019		<0.001	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			7.8E-05 (J)
3/9/2020		<0.001	
8/11/2020			<0.001
8/13/2020		<0.001	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.001	<0.001
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.001
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.001	
9/9/2021		<0.001	<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001		
9/16/2021			
1/18/2022			<0.001
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		<0.001	
9/7/2022			<0.001
9/8/2022		<0.001	
9/12/2022			
9/13/2022	<0.001		
9/14/2022			
9/16/2022			
1/31/2023	<0.001		<0.001
2/1/2023		<0.001	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.001		0.00053 (J)
9/7/2023		<0.001	
9/11/2023			
9/12/2023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0004 (J)	<0.001			<0.001			
9/1/2016				<0.001					0.0005 (J)
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		0.0005 (J)
12/8/2016								<0.001	
3/28/2017	6E-05 (J)								
3/29/2017		0.0006 (J)	<0.001	8E-05 (J)		<0.001			0.0004 (J)
3/30/2017					<0.001		<0.001	0.0002 (J)	
5/11/2017									
5/12/2017	<0.001								
6/15/2017									
6/16/2017	<0.001								
7/11/2017	<0.001								
7/12/2017		0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001	0.0002 (J)	0.0005 (J)
10/24/2017	<0.001	0.0004 (J)	<0.001						
10/25/2017				9E-05 (J)		<0.001	<0.001	0.0002 (J)	0.0004 (J)
11/15/2017					<0.001				
2/27/2018	<0.001	<0.01	<0.001	<0.001		<0.001			
2/28/2018					<0.001		<0.001	0.00015 (J)	0.00049 (J)
7/11/2018				<0.001		<0.001	<0.001	0.00017 (J)	0.0005 (J)
11/6/2018	<0.001	<0.001 (J)	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001 (J)	<0.001	<0.001 (J)
8/27/2019	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001		0.00018 (J)	
8/28/2019					<0.001		<0.001		0.00053 (J)
8/29/2019									
9/17/2019				9.7E-05 (J)					
10/15/2019	<0.001	0.00039 (J)	<0.001	9.1E-05 (J)					
10/16/2019					<0.001	<0.001			0.00053 (J)
10/17/2019							<0.001		
10/18/2019								0.00014 (J)	
3/2/2020	<0.001		<0.001	0.00013 (J)					
3/3/2020		0.00042 (J)			<0.001	<0.001	<0.001		0.0006 (J)
3/4/2020								0.00019 (J)	
8/11/2020	<0.001	0.00037 (J)	<0.001	<0.001		<0.001			0.00059 (J)
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			0.0005 (J)
9/23/2020					<0.001		<0.001		
9/24/2020		0.00034 (J)						0.00018 (J)	
3/1/2021	<0.001								
3/2/2021			<0.001		<0.001	<0.001	<0.001		0.00056 (J)
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		0.00056 (J)
9/10/2021		0.00027 (J)							
9/13/2021								<0.001	
1/18/2022	<0.001								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							<0.001	<0.001	
1/25/2022			<0.001	<0.001	<0.001	<0.001			0.00057 (J)
1/26/2022		0.00033 (J)							
9/7/2022	<0.001								
9/13/2022						<0.001	<0.001		
9/14/2022								<0.001	0.00056 (J)
9/15/2022		<0.01	<0.001	<0.001	<0.001				
9/20/2022									
1/31/2023	<0.001								
2/1/2023					<0.001	<0.001			
2/2/2023		<0.01					<0.001		
2/6/2023			<0.001	<0.001				<0.001	0.00059 (J)
2/7/2023									
9/6/2023	<0.001								
9/8/2023			<0.001		<0.001	0.00056 (J)	<0.001		0.0005 (J)
9/11/2023		<0.01		0.00021 (J)					
9/13/2023								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.1	<0.001
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0006 (J)	
12/8/2016			<0.001
3/28/2017			
3/29/2017		0.0006 (J)	
3/30/2017	<0.001		<0.001
5/11/2017	<0.001		
5/12/2017			
6/15/2017	<0.001		
6/16/2017			
7/11/2017	<0.001		
7/12/2017		0.0006 (J)	<0.001
10/24/2017	<0.001		
10/25/2017		0.0005 (J)	<0.001
11/15/2017			
2/27/2018	<0.001		
2/28/2018		<0.1	<0.001
7/11/2018	<0.001	<0.1	<0.001
11/6/2018	<0.001		
11/7/2018		<0.001 (J)	<0.001
8/27/2019	<0.001		
8/28/2019			
8/29/2019		0.00084 (J)	<0.001
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.001	0.00062 (J)	<0.001
10/18/2019			
3/2/2020			
3/3/2020	<0.001		<0.001
3/4/2020		0.0023 (J)	
8/11/2020	<0.001		
8/12/2020			
8/13/2020		0.0016 (J)	
8/14/2020			<0.001
9/22/2020		0.00055 (J)	
9/23/2020	<0.001		
9/24/2020			<0.001
3/1/2021			
3/2/2021	<0.001	0.0014 (J)	
3/3/2021			<0.001
3/4/2021			
9/8/2021			
9/9/2021	<0.001		<0.001
9/10/2021		0.00052 (J)	
9/13/2021			
1/18/2022			

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	<0.001		<0.001
1/21/2022		<0.1	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.001 (J)	<0.001
9/20/2022	<0.001		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001		
2/7/2023		0.0018 (J)	<0.001
9/6/2023			
9/8/2023			
9/11/2023		<0.1	<0.001
9/13/2023	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	<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	<0.001			
3/28/2017			<0.001				0.0002 (J)		0.0007 (J)
3/29/2017	6E-05 (J)							0.0002 (J)	
3/30/2017		<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)	0.0007 (J)
7/12/2017		<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)	0.0006 (J)
10/25/2017	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)	0.00038 (J)
2/28/2018	<0.001			<0.001					
3/1/2018		<0.001			0.00032 (J)				
3/2/2018						<0.001			
7/11/2018				<0.001					<0.005
7/12/2018	<0.001	<0.001			0.00031 (J)	<0.001			
11/6/2018			<0.001				<0.001	<0.001 (J)	<0.005
11/7/2018	<0.001			<0.001	<0.001 (J)	<0.001			
11/8/2018		<0.001 (J)							
8/27/2019			<0.001				<0.001		0.00053 (J)
8/28/2019				6.9E-05 (J)				0.00022 (J)	
8/29/2019	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	0.00025 (J)				0.00076 (J)
10/18/2019	<0.001	<0.001				<0.001			
3/2/2020			<0.001				6.2E-05 (J)		
3/3/2020	7E-05 (J)							0.00023 (J)	0.00044 (J)
3/4/2020		<0.001		<0.001	0.00021 (J)	6.8E-05 (J)			
8/11/2020									<0.005
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								
9/22/2020			<0.001	<0.001			<0.001		0.00043 (J)
9/23/2020					0.00026 (J)	<0.001		0.0002 (J)	
9/24/2020	<0.001	<0.001							
3/1/2021			<0.001						
3/2/2021							<0.001	0.00019 (J)	<0.005
3/3/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001			
9/9/2021		<0.001							
9/10/2021	<0.001		<0.001		0.00036 (J)	<0.001	<0.001		0.0004 (J)
9/13/2021				<0.001				0.00019 (J)	
1/20/2022	<0.001	<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.00028 (J)				
1/24/2022			<0.001			<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	
9/16/2022	<0.001								
9/19/2022			<0.001						<0.005
9/20/2022		<0.001							
2/1/2023				0.00028 (J)					
2/3/2023			<0.001		0.00022 (J)	<0.001			<0.005
2/6/2023	<0.001	<0.001							
2/7/2023							<0.001	<0.001	
9/11/2023	<0.001	<0.001							
9/12/2023					0.00019 (J)			<0.001	
9/13/2023			<0.001	<0.001		<0.001	<0.001		
9/14/2023									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
3/3/2021									
3/4/2021			459	818	321	525	569		
3/5/2021		462						634	
3/8/2021	660								
3/12/2021									
4/15/2021									982
9/9/2021									
9/10/2021			474						
9/13/2021	636	343			296	567			
9/14/2021				776			576	586	882
1/20/2022									816
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									867
2/2/2023	595		466						
2/3/2023		313		842					803
2/6/2023						608			
2/7/2023					246		563	489	
9/6/2023	641								
9/7/2023									
9/8/2023		668							
9/11/2023			442		304				
9/12/2023						560			743
9/13/2023				839			607	506	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/25/2020			
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/15/2021			
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021			
1/20/2022			187
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		344	
6/6/2022	307		
9/8/2022			160
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		353	
9/19/2022			
2/2/2023			197
2/3/2023			
2/6/2023	392		
2/7/2023		379	
9/6/2023			
9/7/2023	324		181
9/8/2023		402	
9/11/2023			
9/12/2023			
9/13/2023			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	204								
1/30/2019		601							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/1/2021									
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
3/12/2021									
9/9/2021									
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				
1/18/2022									
1/20/2022	177		129						
1/21/2022					236				
1/25/2022		482		668					
1/26/2022							572	766	930
1/27/2022						654			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							696	884	
9/13/2022			113		210				1050
9/14/2022	206								
9/16/2022		498		468		564			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/31/2023							688	898	
2/1/2023									1170
2/2/2023	198								
2/3/2023					214				
2/6/2023			92						
2/7/2023		497		611		685			
9/6/2023							1020	1020	1190
9/7/2023	186								
9/11/2023		484		612					
9/12/2023			98		204	752			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		202	39
5/11/2017		241	
5/15/2017			88
6/15/2017		251	65
7/11/2017			25
7/12/2017		218	
8/8/2017			53
10/24/2017		671 (O)	49
11/15/2017		241	
2/27/2018			43
3/8/2018		213	
7/12/2018		198	
11/6/2018			65
11/7/2018		200	
1/28/2019			
1/30/2019			
3/12/2019			43
3/13/2019		201	
10/15/2019			70
10/16/2019		126	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			52
3/9/2020		171	
9/22/2020		142	46
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			25
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		124	
9/9/2021		131	53
9/13/2021			
9/14/2021			
9/15/2021	524		
9/16/2021			
1/18/2022			54
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	139		
1/27/2022			
1/28/2022		155	
9/7/2022			34
9/8/2022		129	
9/12/2022			
9/13/2022	267		
9/14/2022			
9/16/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/31/2023	147		163
2/1/2023		116	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	207		46
9/7/2023		123	
9/11/2023			
9/12/2023			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		525	307			106			
9/1/2016				568					396
9/2/2016									
9/6/2016					296		304		
9/7/2016								353	
12/6/2016		595	358			138			
12/7/2016				559	270		287		400
12/8/2016								408	
3/28/2017	90								
3/29/2017		525	300	550		102			390
3/30/2017					287		312	338	
5/11/2017									
5/12/2017	92								
6/15/2017									
6/16/2017	100								
7/11/2017	59								
7/12/2017		598	382	594	312	118	490 (O)	417	360
10/24/2017	117	353	342						
10/25/2017				571		88	290	343	423
11/15/2017	90	582			325				
2/27/2018	79	542	393	582		99			
2/28/2018					84		313	364	440
7/11/2018				593		119	320	393	457
11/6/2018	85	512	412						
11/7/2018				504	314	113	325	408	461
3/12/2019	74	436	433	465					
3/13/2019					656	280		802	113
3/14/2019							340		
10/15/2019	89	447	461	472					
10/16/2019					296	104			500
10/17/2019							319		
10/18/2019								403	
3/2/2020	67		458	338					
3/3/2020		382			263	123	323		526
3/4/2020								414	
9/22/2020	74		481	338		105			513
9/23/2020					278		317		
9/24/2020		283						411	
3/1/2021	62								
3/2/2021			456		256	105	272		513
3/3/2021				325				384	
3/4/2021		430							
9/8/2021	75								
9/9/2021			433	275	246	99	292		480
9/10/2021		474							
9/13/2021								424	
1/18/2022	76								
1/20/2022									
1/21/2022									
1/24/2022							294	426	
1/25/2022			465	258	256	120			694
1/26/2022		425							

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/7/2022	82								
9/13/2022						80	289		
9/14/2022								434	572
9/15/2022		280	414	377	216				
9/20/2022									
1/31/2023	87								
2/1/2023					216	116			
2/2/2023		390					288		
2/6/2023			481	251				403	600
2/7/2023									
9/6/2023	80								
9/8/2023			451		217	156	274		634
9/11/2023		436		302					
9/13/2023								480	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		1100	459
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		930	
12/8/2016			491
3/28/2017			
3/29/2017		923	
3/30/2017	580		436
5/11/2017	573		
5/12/2017			
6/15/2017	626		
6/16/2017			
7/11/2017	542		
7/12/2017		956	505
10/24/2017	523		
10/25/2017		854	474
11/15/2017			
2/27/2018	401		
2/28/2018		888	480
7/11/2018	334	826	485
11/6/2018	334		
11/7/2018		834	516
3/12/2019	297		
3/13/2019		639	486
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	302	751	498
10/18/2019			
3/2/2020			
3/3/2020	277		490
3/4/2020		761	
9/22/2020		724	
9/23/2020	267		
9/24/2020			494
3/1/2021			
3/2/2021	241	742	
3/3/2021			459
3/4/2021			
9/8/2021			
9/9/2021	260		396
9/10/2021		678	
9/13/2021			
1/18/2022			
1/20/2022	238		451
1/21/2022		702	
1/24/2022			
1/25/2022			
1/26/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		618	440
9/20/2022	230		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	226		
2/7/2023		848	498
9/6/2023			
9/8/2023			
9/11/2023		960	519
9/13/2023	212		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								693	414
8/31/2016							524		
9/1/2016					704	845			
9/2/2016	502								
9/7/2016				611					
12/6/2016							690	727	449
12/8/2016	464			535	587	777			
3/28/2017			1160				545		404
3/29/2017	462							654	
3/30/2017		380				775			
3/31/2017				661	545				
5/12/2017		438	1230						
6/15/2017		458	1290						
7/11/2017			1160				612	679	436
7/12/2017		461							
7/13/2017	492			641	441	789			
10/24/2017			229					468	599
10/25/2017	477			626			650		
10/26/2017		446			444	753			
11/15/2017			1330						
2/27/2018			1380				698	520	482
2/28/2018	476			616					
3/1/2018		454			435				
3/2/2018						704			
7/11/2018				638					532
7/12/2018	486	432			372	705			
11/6/2018			1480				809	456	554
11/7/2018	511			626	348	678			
11/8/2018		450							
3/12/2019			1490				711	438	493
3/14/2019	491	453		630	378	625			
10/15/2019			1520						
10/16/2019							702	374	
10/17/2019				612	327				550
10/18/2019	480	448				593			
3/2/2020			1540				759		
3/3/2020	452							369	444
3/4/2020		408		721	334	630			
9/22/2020			1400	547			716		461
9/23/2020					229	575		333	
9/24/2020	455	456							
3/1/2021			1140						
3/2/2021							730	291	449
3/3/2021	442	425		531	228	521			
9/9/2021		455							
9/10/2021	468		1520		274	532	792		466
9/13/2021				508				306	
1/20/2022	434	453		504					
1/21/2022					289				
1/24/2022			1520			500	810		
1/25/2022								281	
1/26/2022									409

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				540	277	527			
9/14/2022							850		
9/15/2022								234	
9/16/2022	462								
9/19/2022			1670						456
9/20/2022		511							
2/1/2023				541					
2/3/2023			1630		259	527			437
2/6/2023	427	532							
2/7/2023							939	223	
3/21/2023									
4/10/2023									
9/11/2023	460	582							
9/12/2023					218			251	
9/13/2023			1520	545		473	1020		
9/14/2023									

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 2:05 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	753
4/10/2023	908
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	853

FIGURE B.

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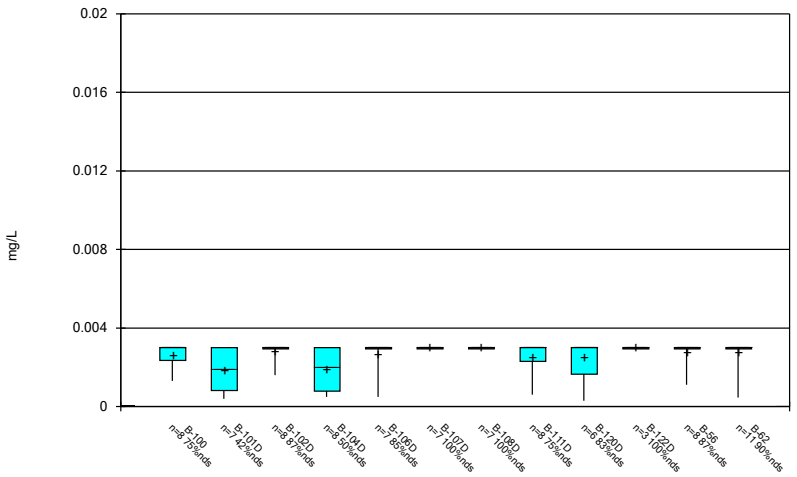
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/16/2024 2:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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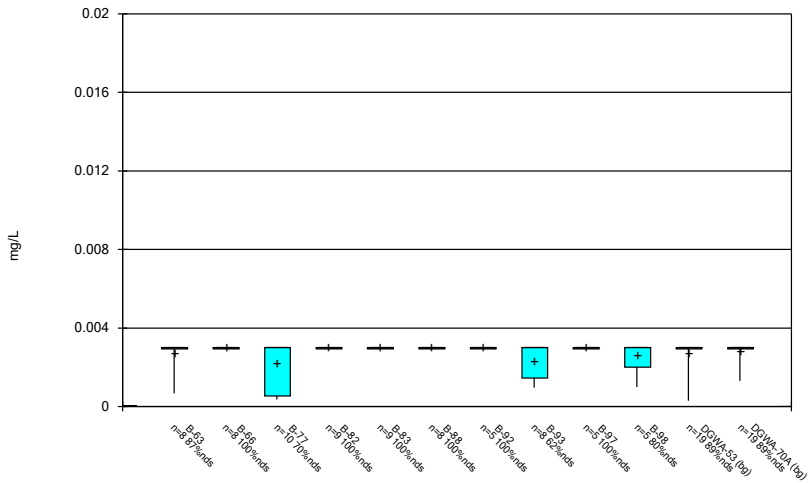
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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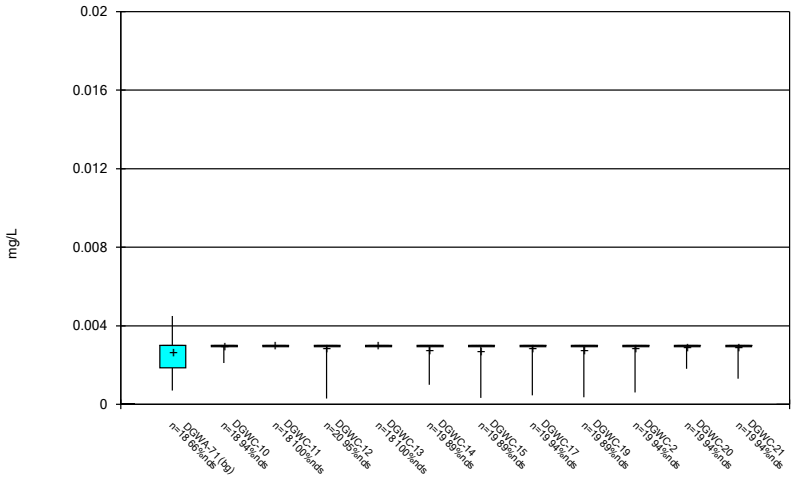
Box & Whiskers Plot



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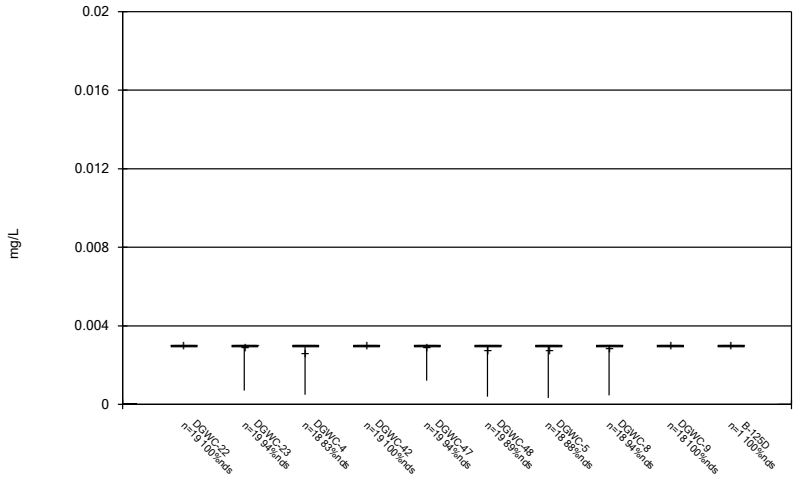

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Plant McDonough Client: Southern Company Data: McDonough AP

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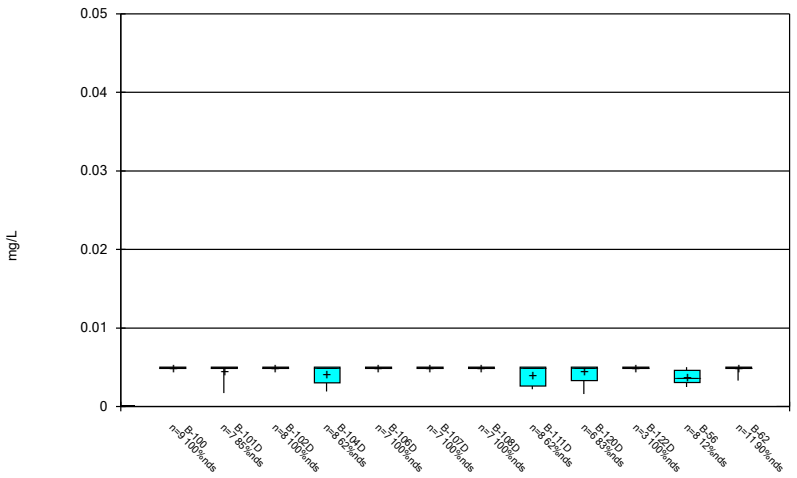

Constituent: Arsenic Analysis Run 1/16/2024 2:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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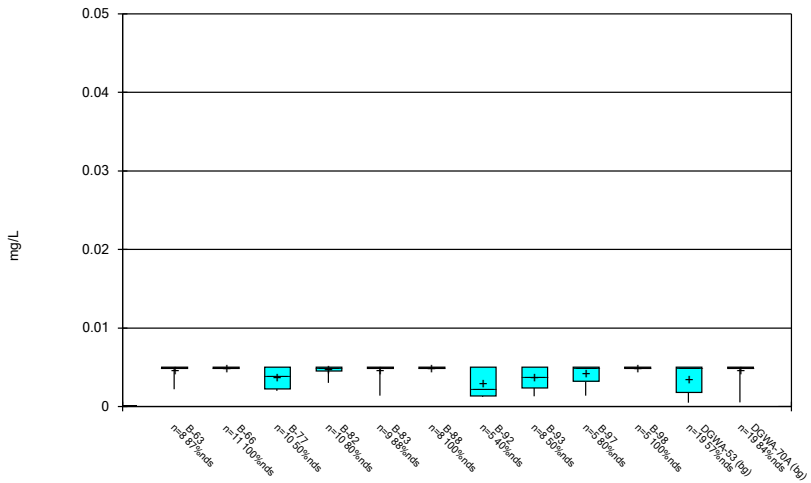
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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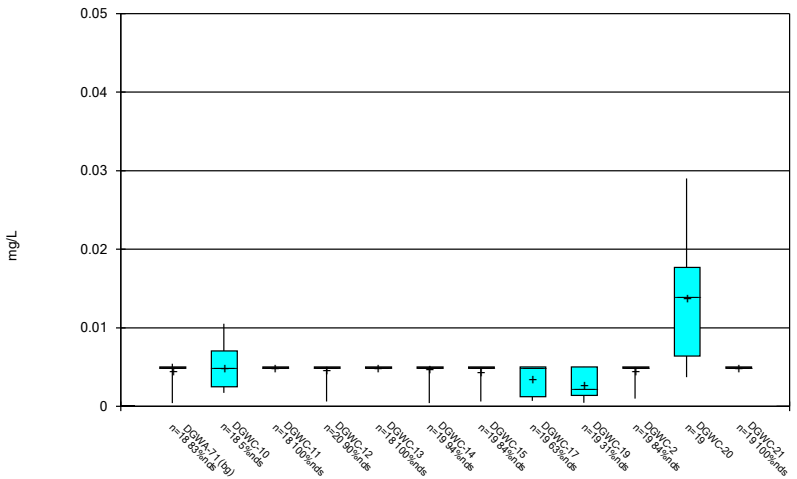

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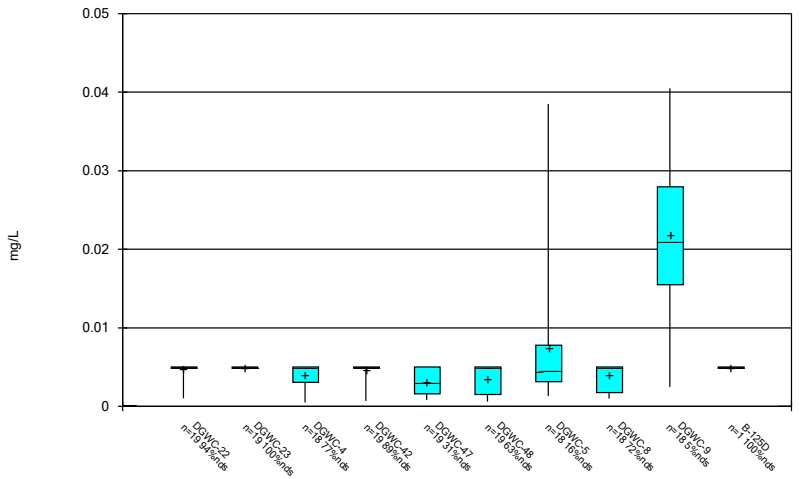

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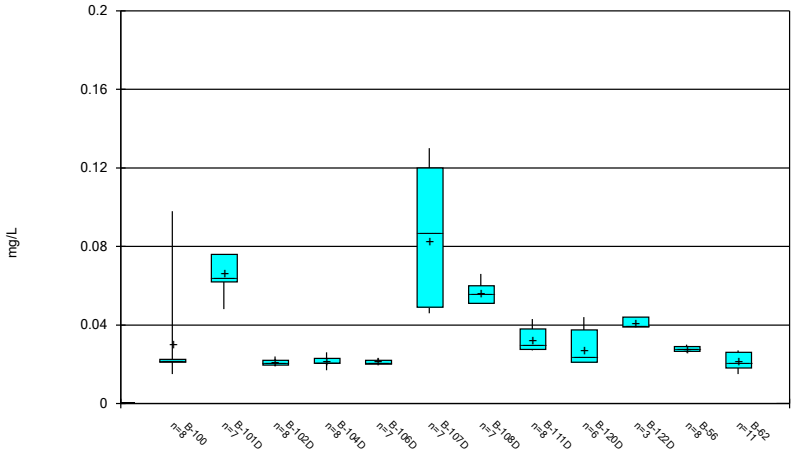

Constituent: Barium Analysis Run 1/16/2024 2:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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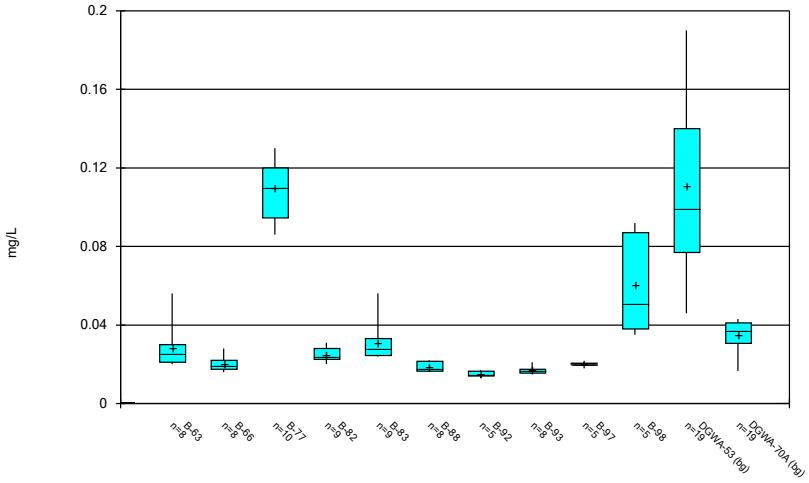
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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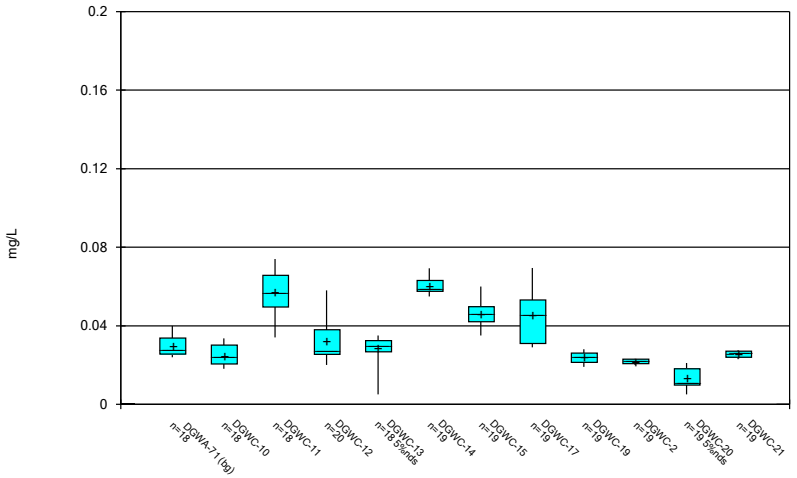
Box & Whiskers Plot



Constituent: Barium Analysis Run 1/16/2024 2:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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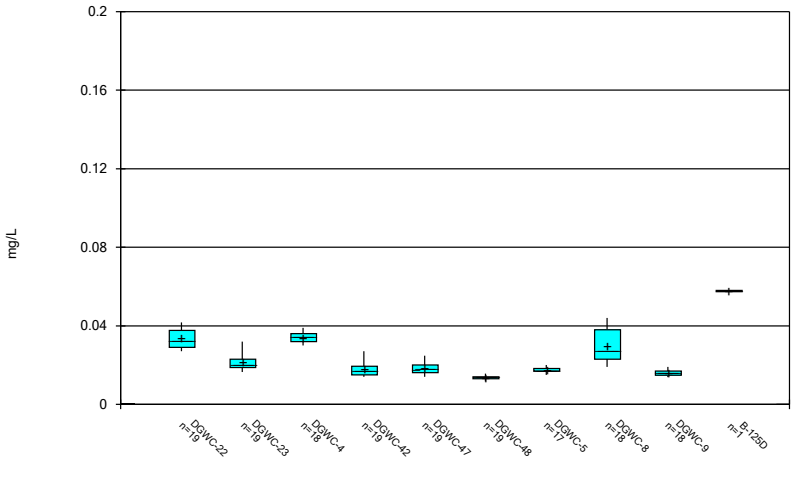
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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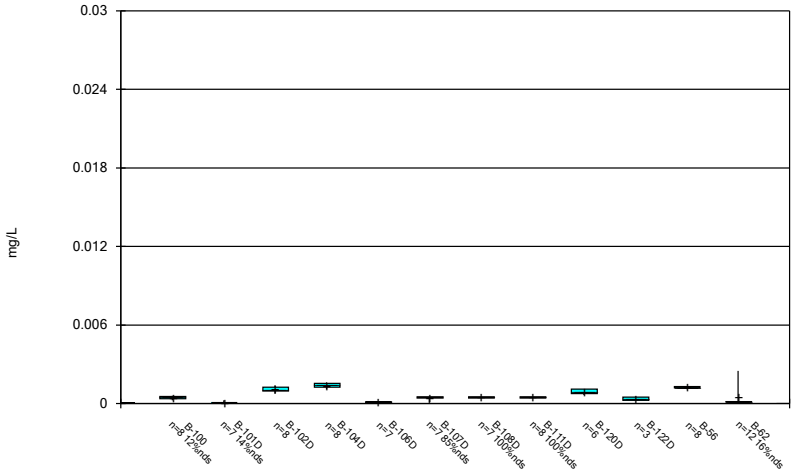
Box & Whiskers Plot



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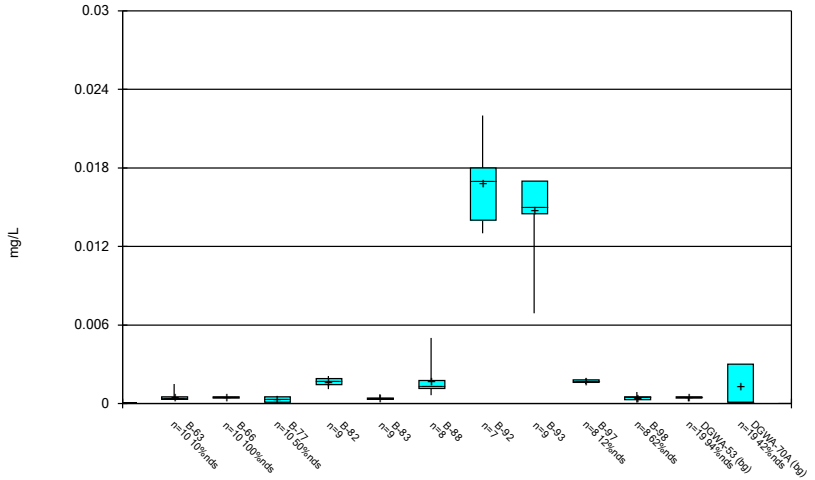
Box & Whiskers Plot



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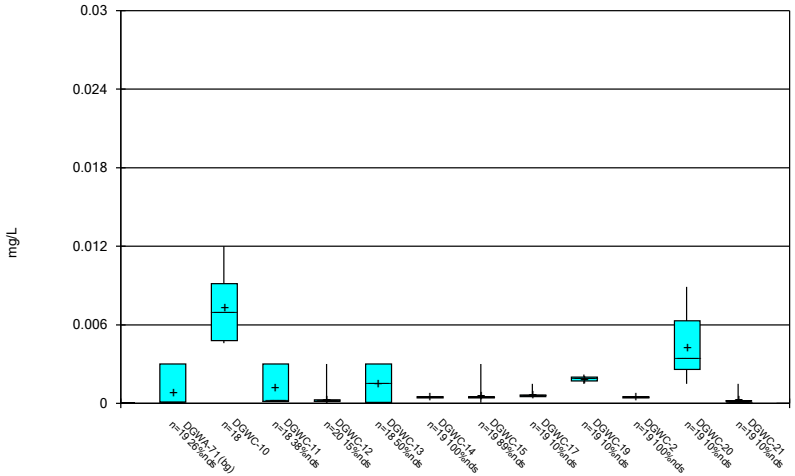

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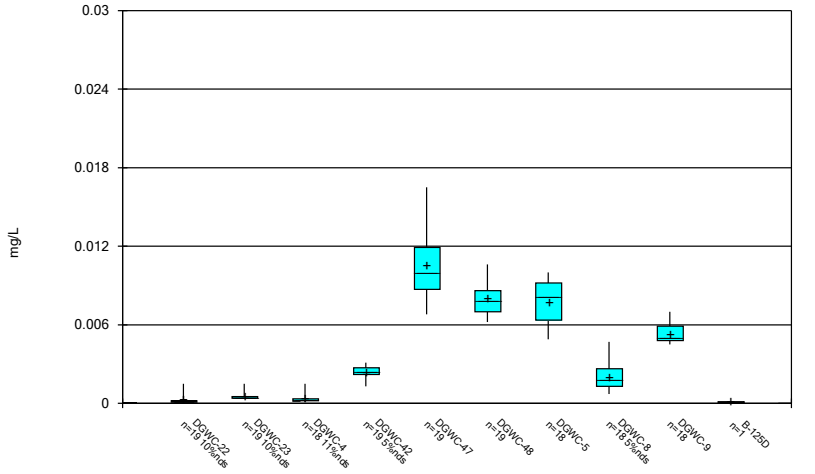

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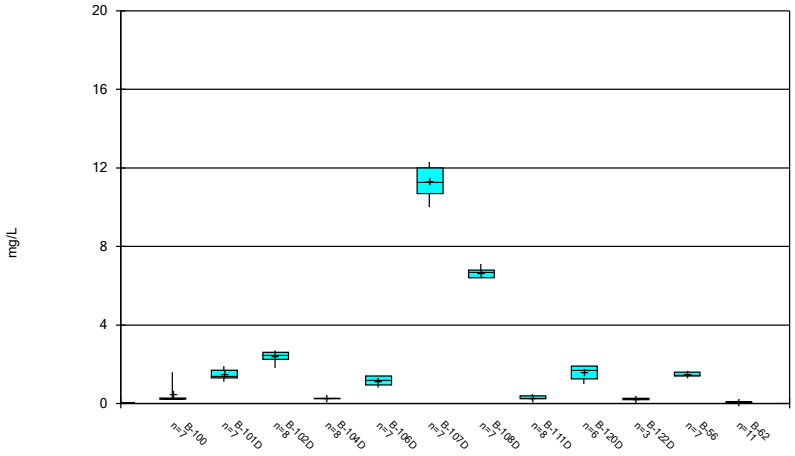

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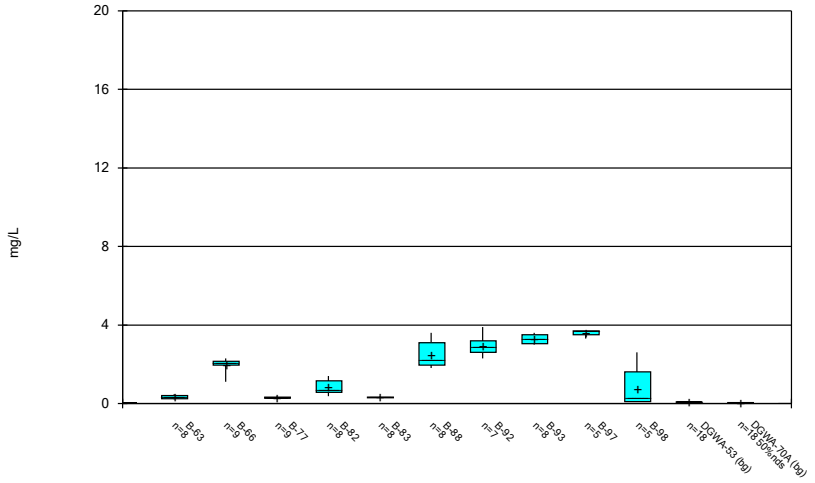

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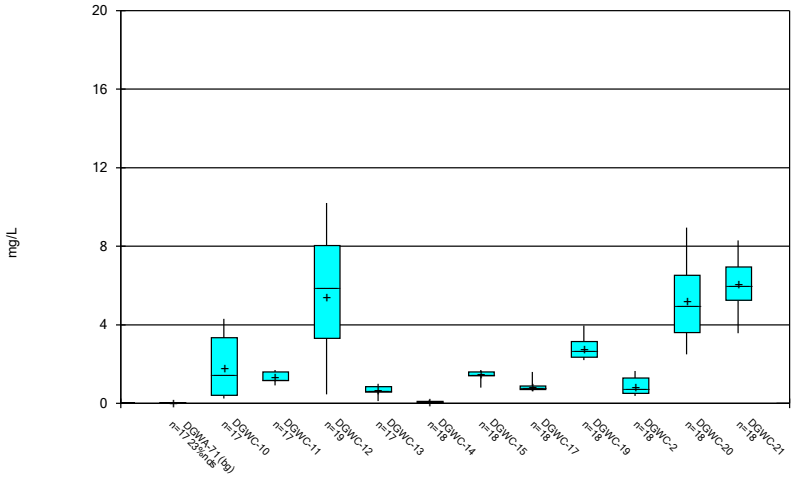

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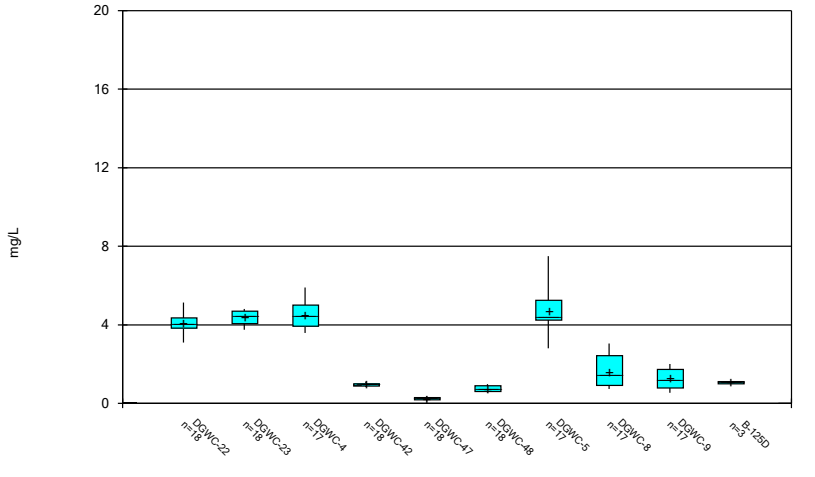

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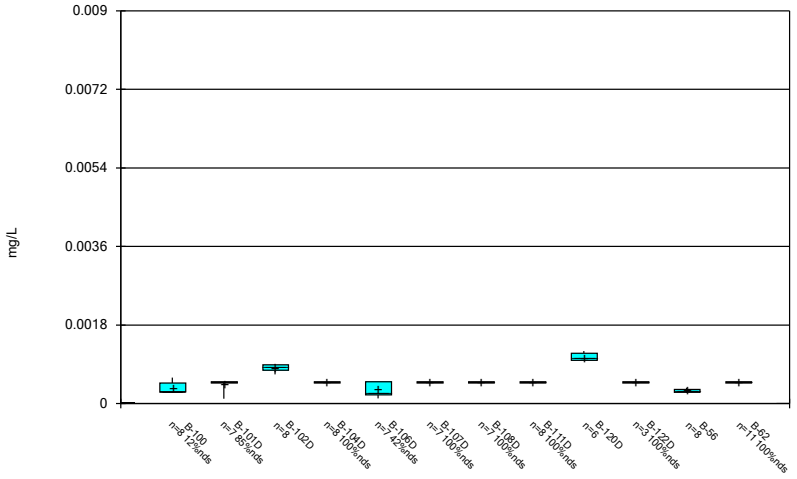

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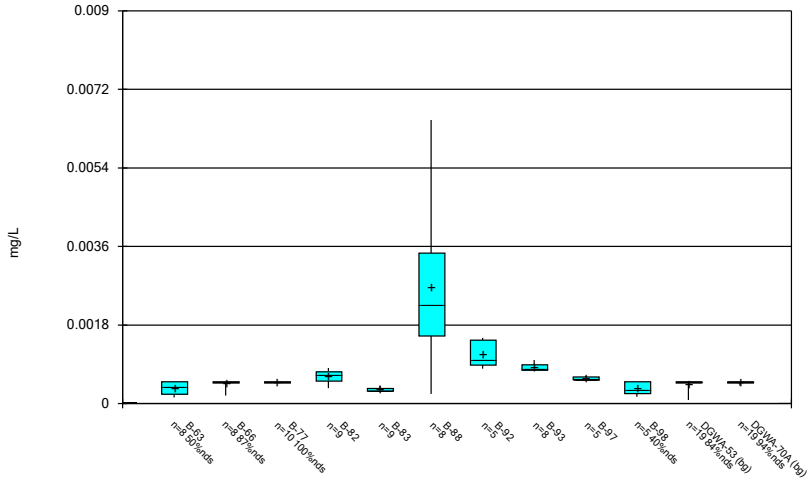
Box & Whiskers Plot



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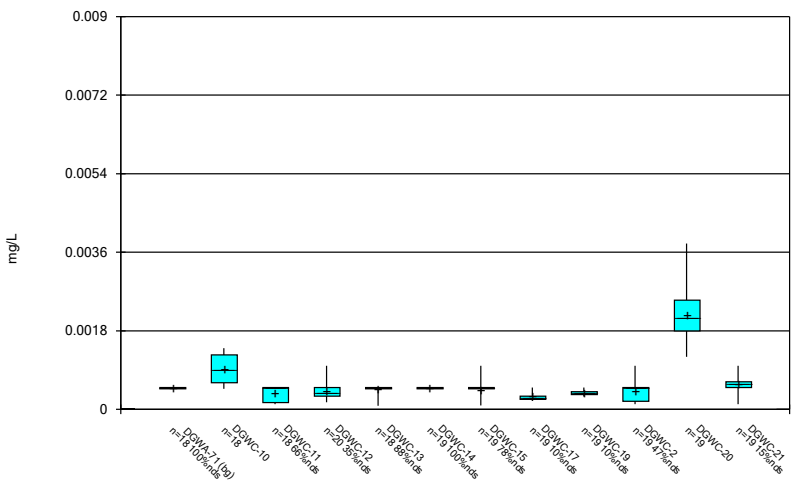

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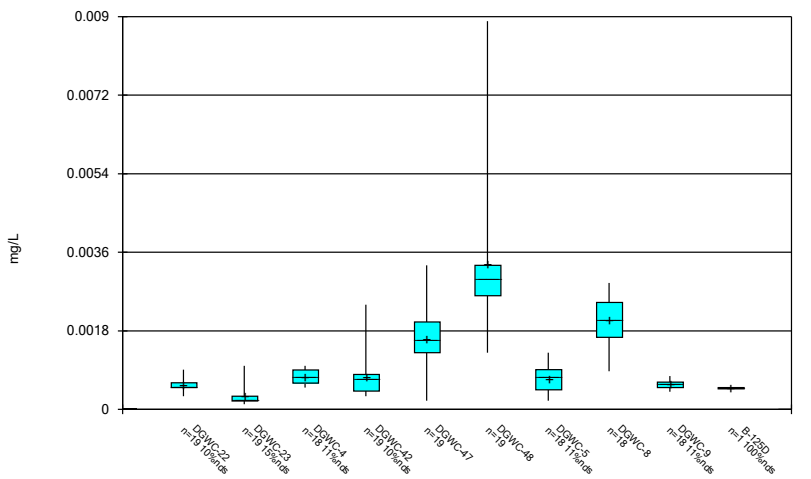

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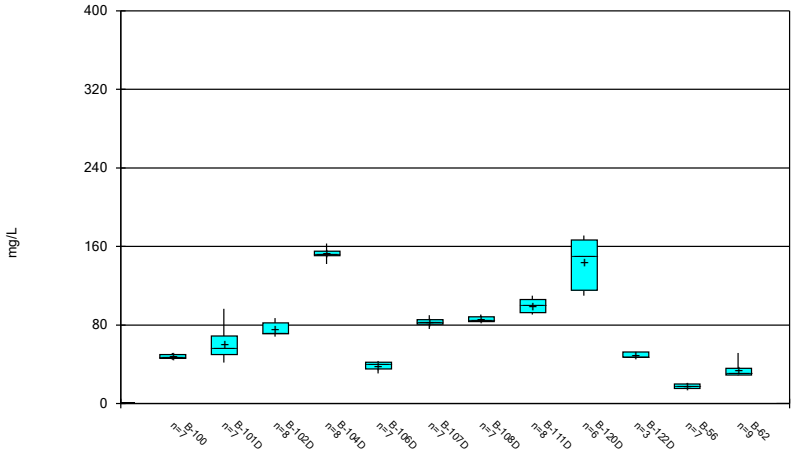

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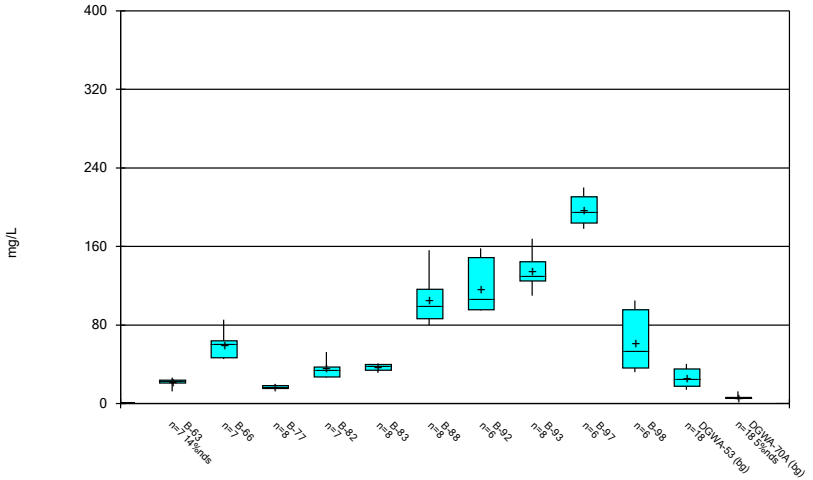
Box & Whiskers Plot



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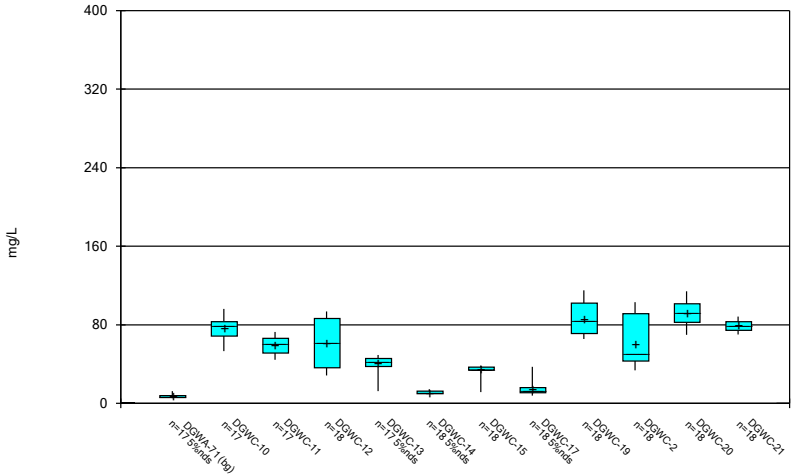

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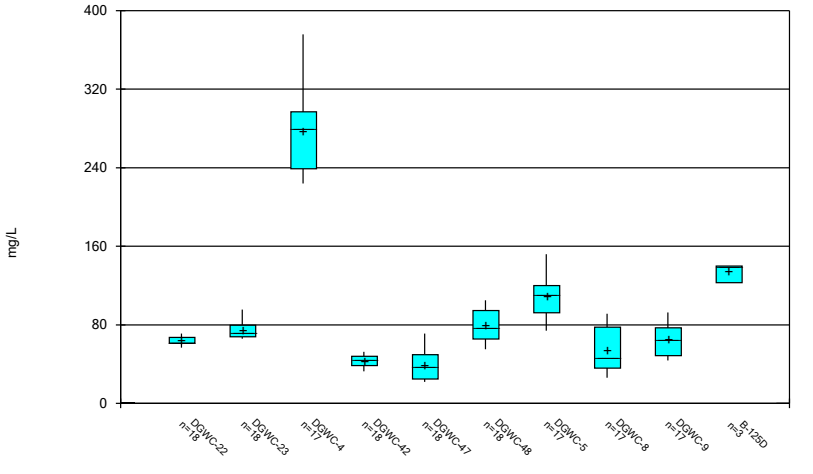

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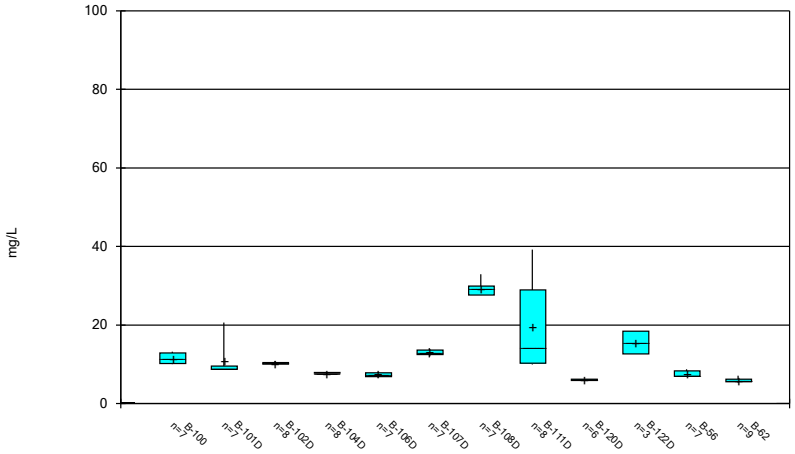

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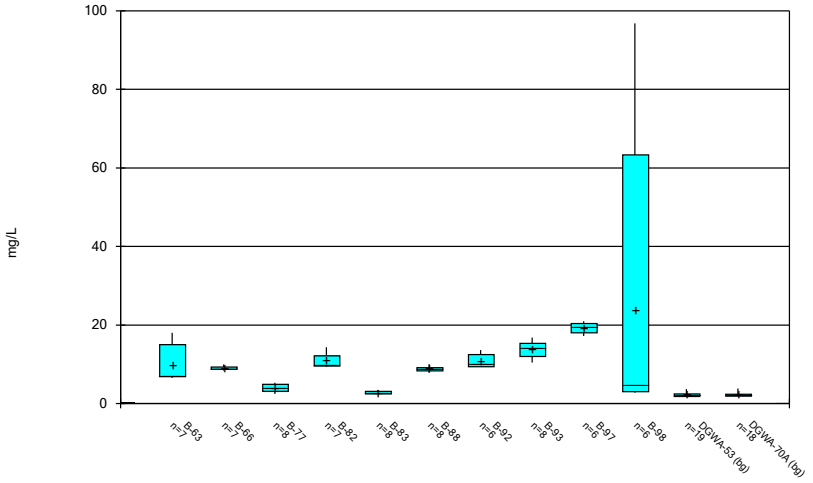
Box & Whiskers Plot



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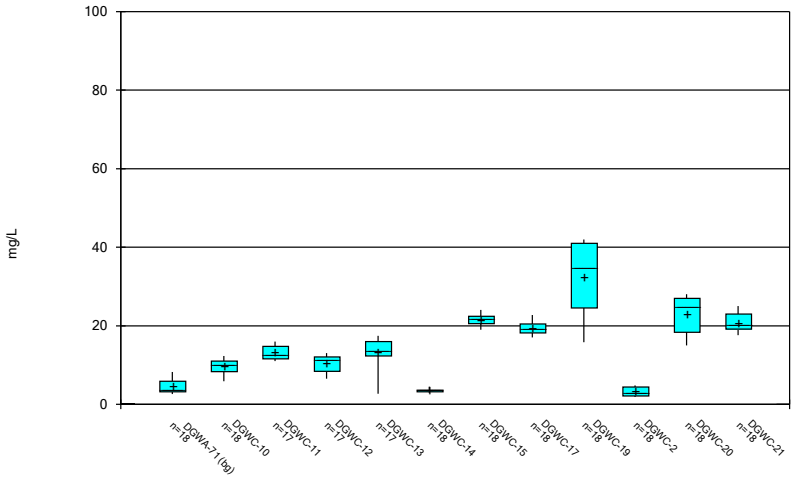

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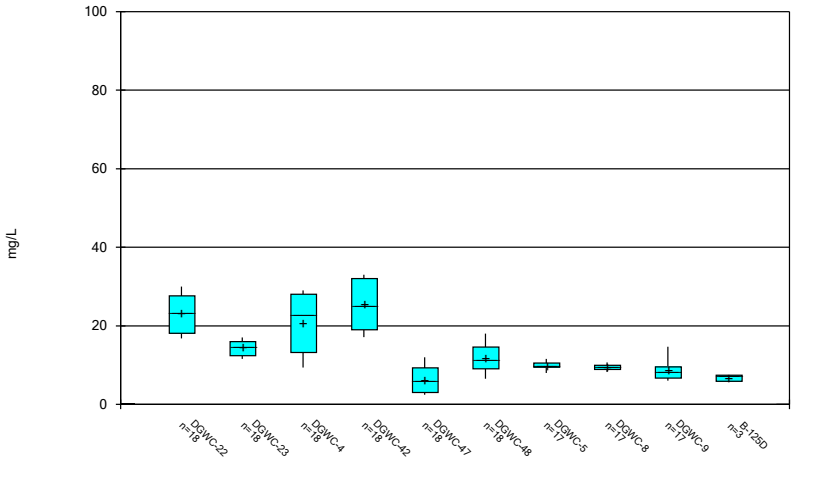

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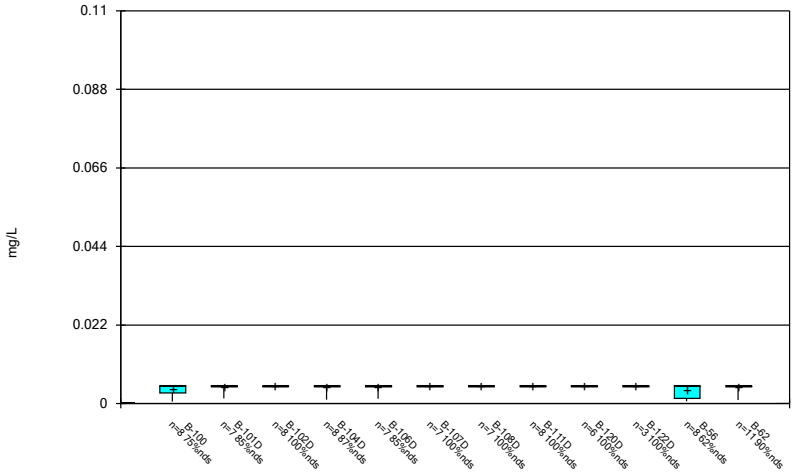

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Plant McDonough Client: Southern Company Data: McDonough AP

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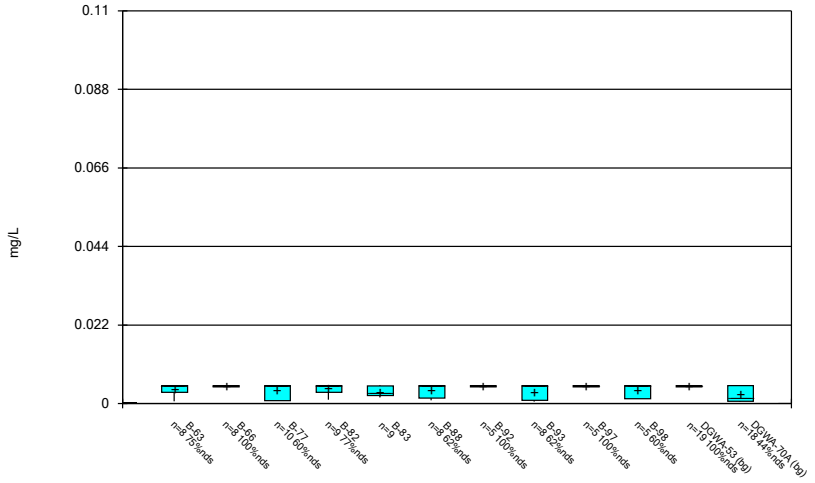
Box & Whiskers Plot



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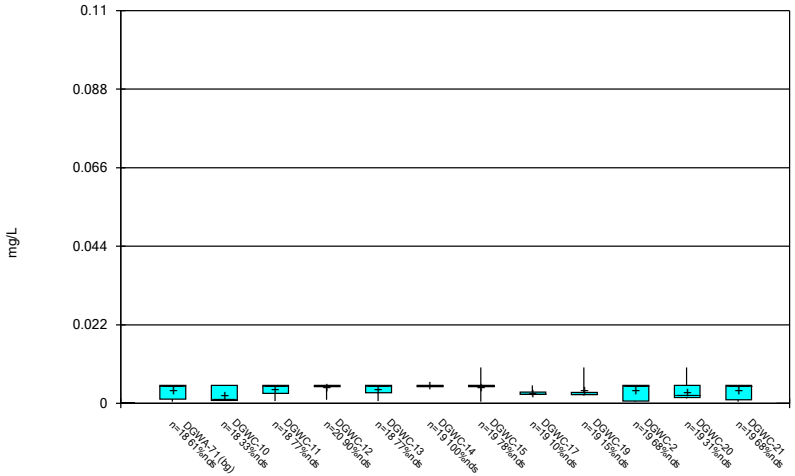
Box & Whiskers Plot



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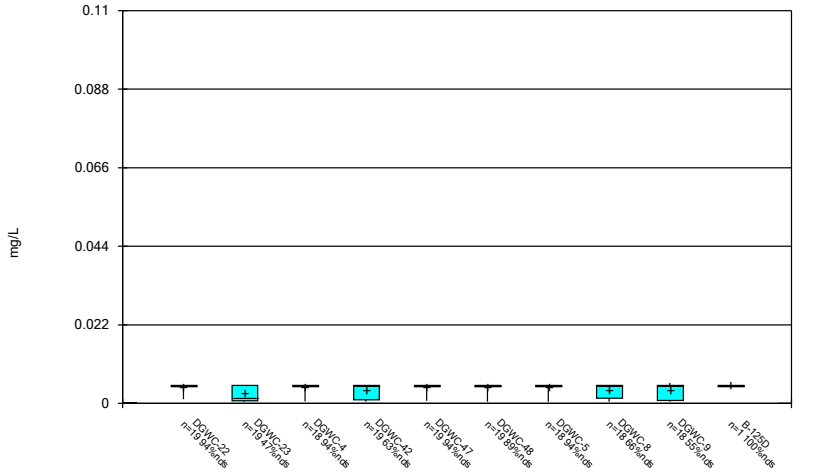
Box & Whiskers Plot



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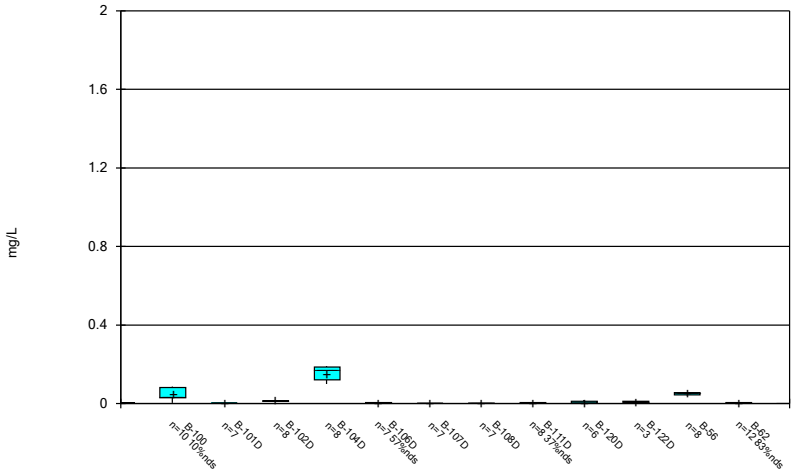
Box & Whiskers Plot



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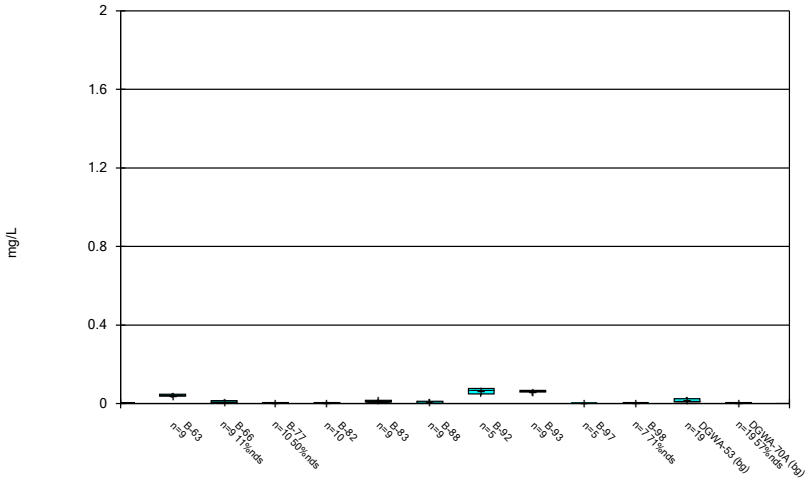
Box & Whiskers Plot



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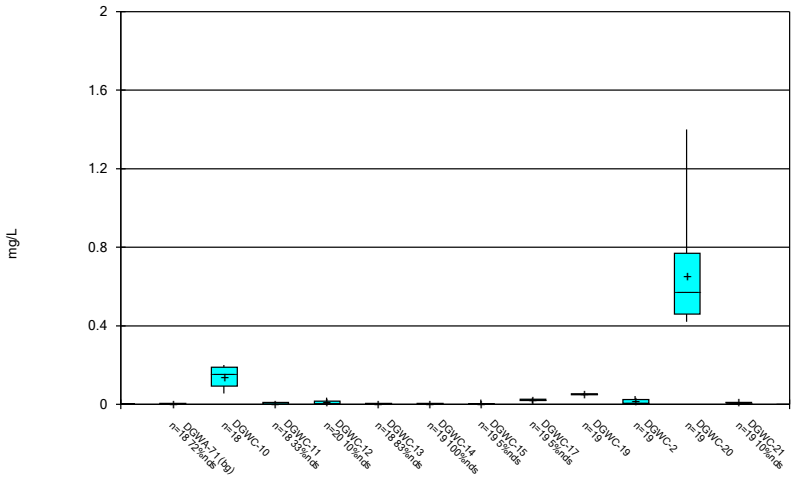
Box & Whiskers Plot



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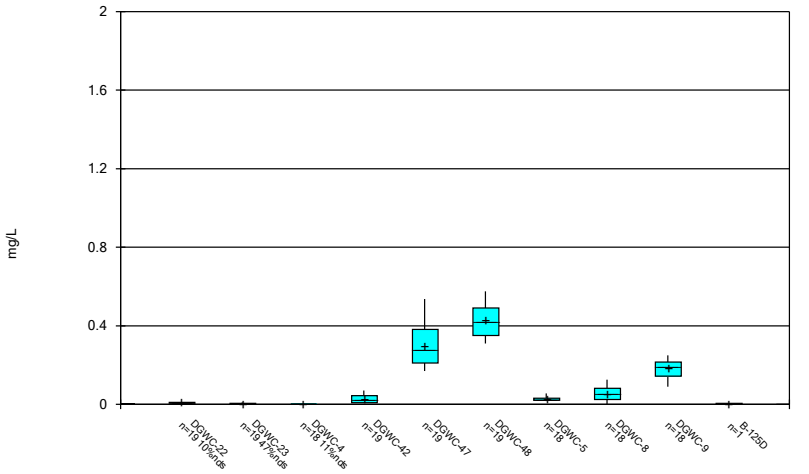
Box & Whiskers Plot



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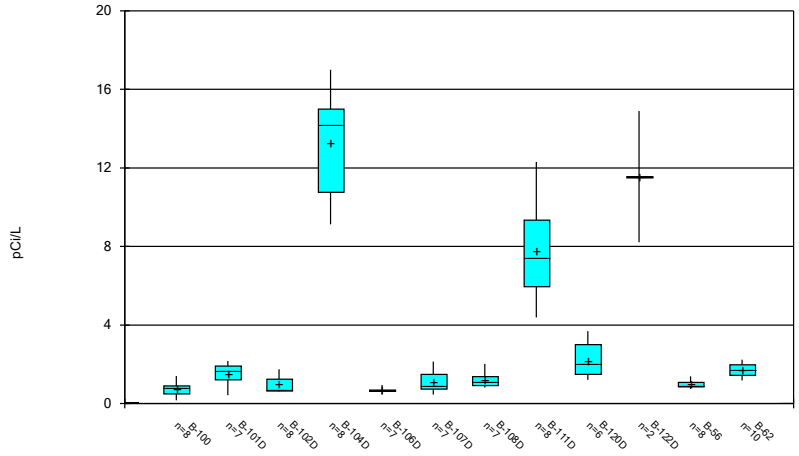
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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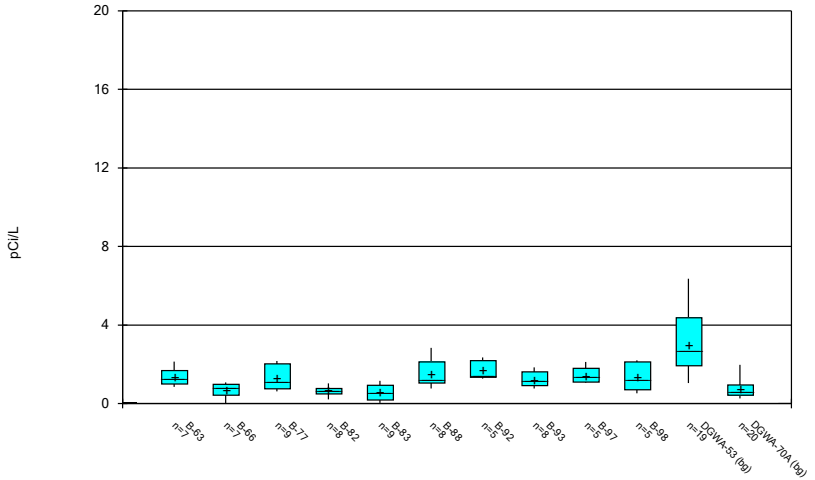
Box & Whiskers Plot



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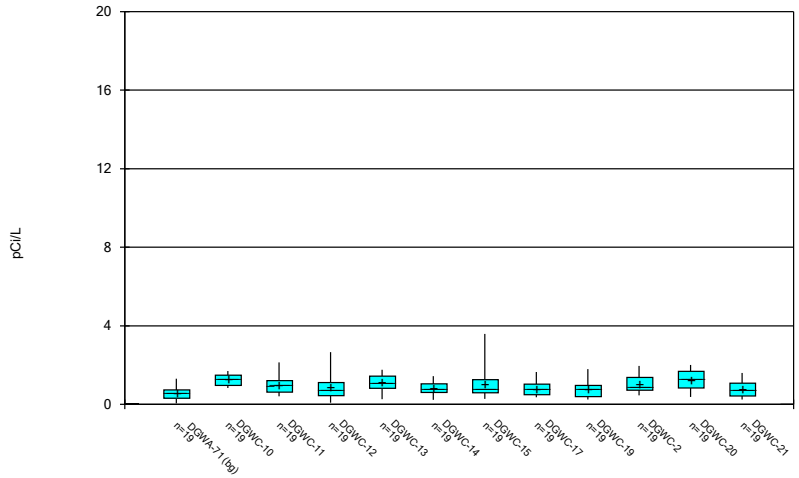
Box & Whiskers Plot



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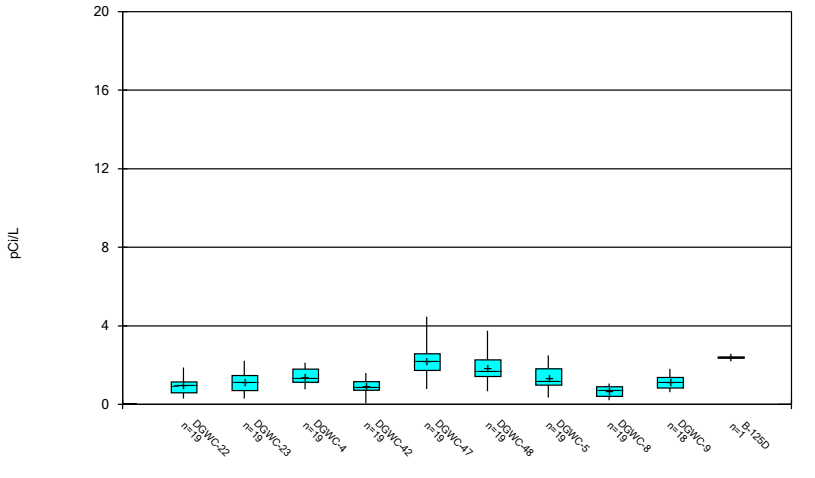
Box & Whiskers Plot



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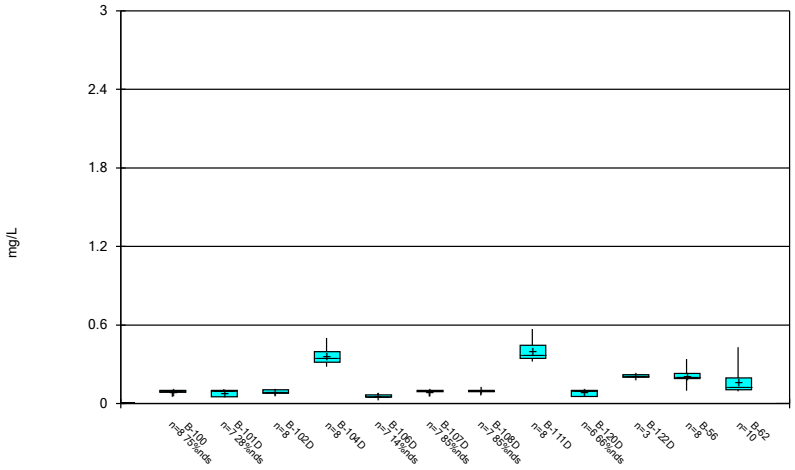
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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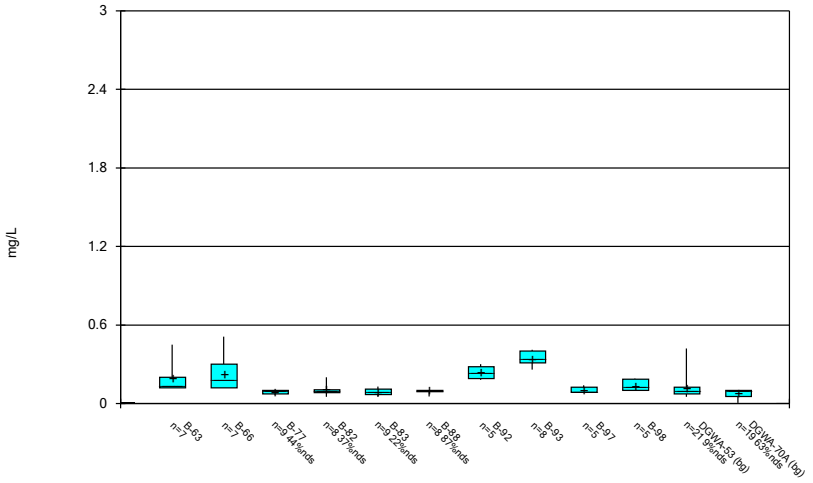
Box & Whiskers Plot



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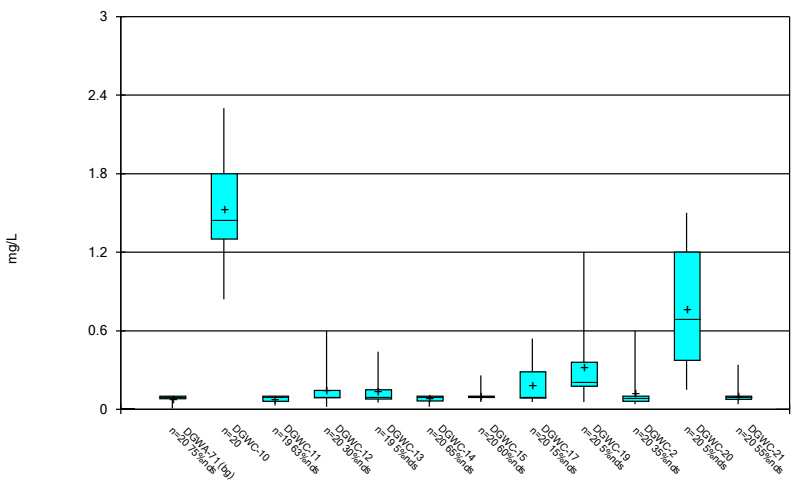

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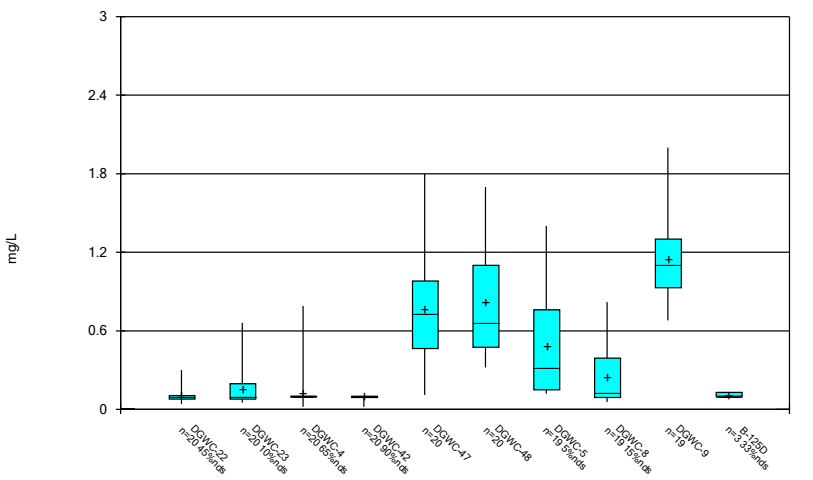

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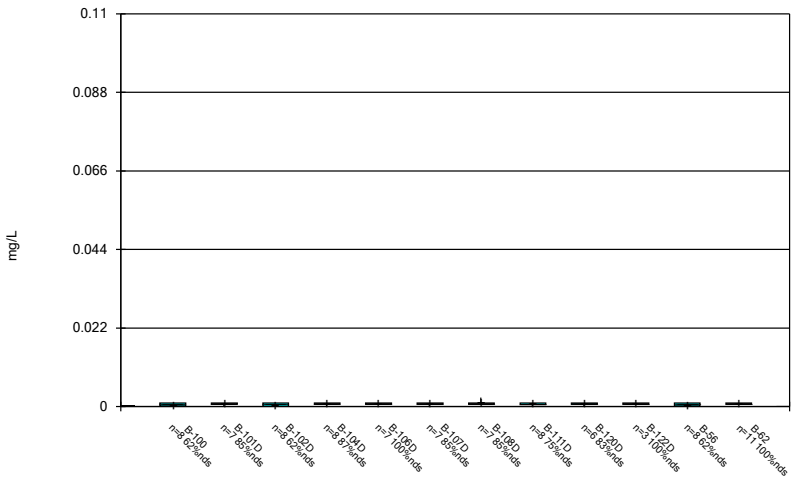
Box & Whiskers Plot



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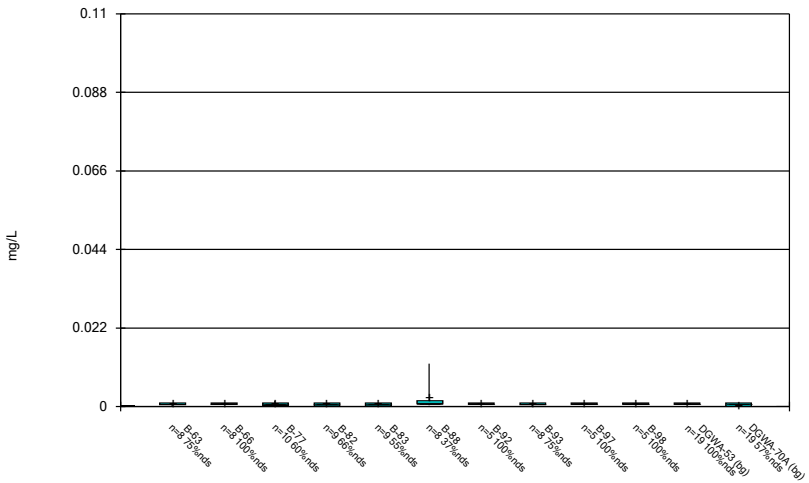
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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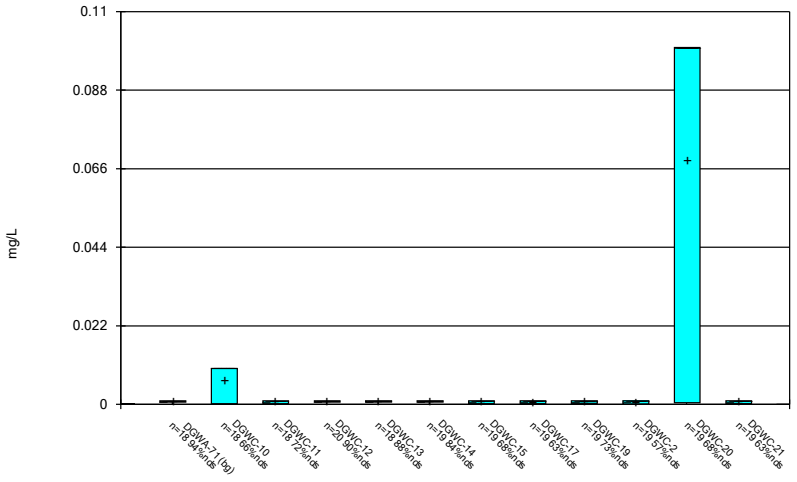
Box & Whiskers Plot



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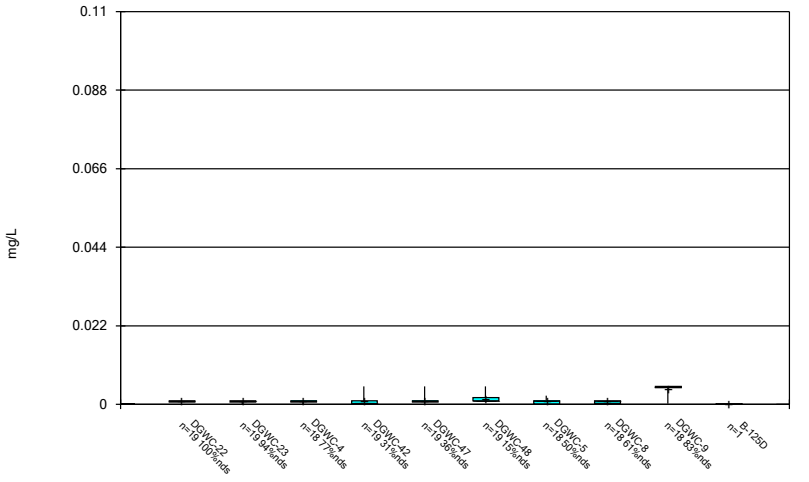

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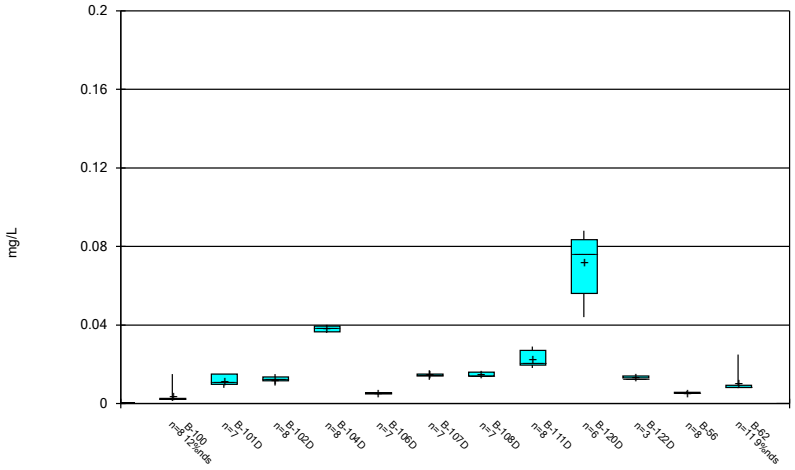

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Plant McDonough Client: Southern Company Data: McDonough AP

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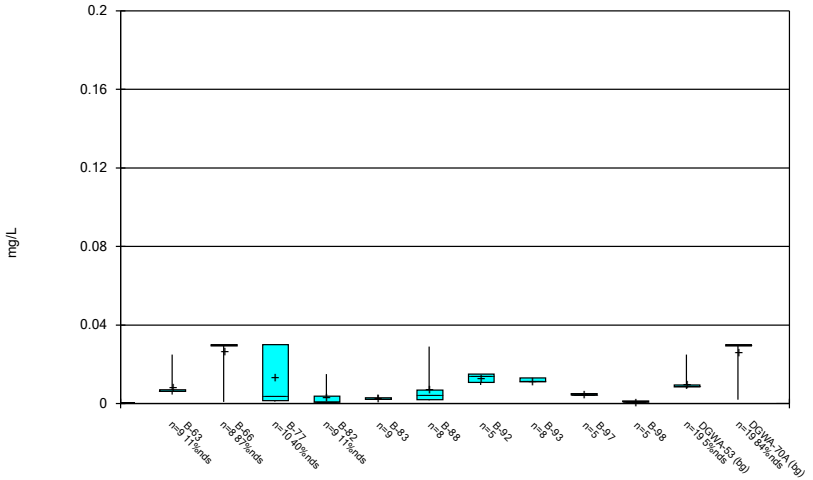

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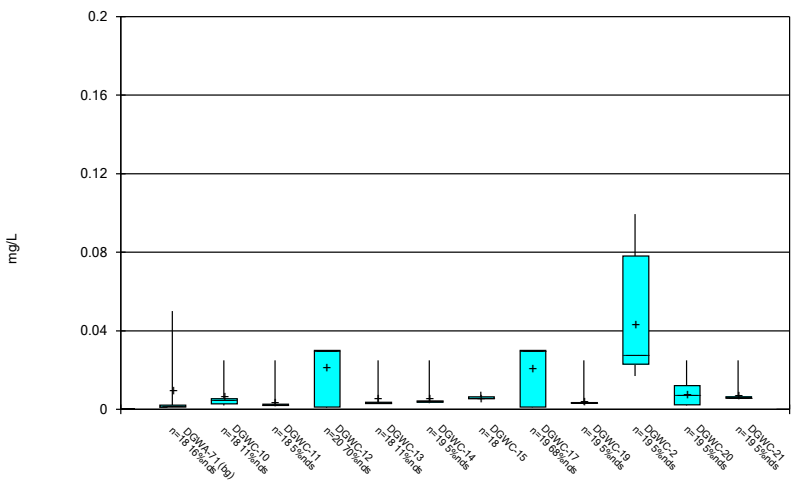

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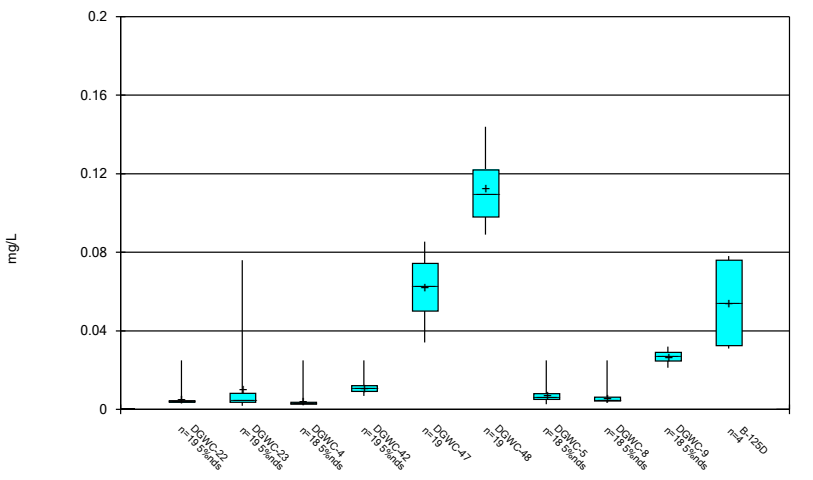

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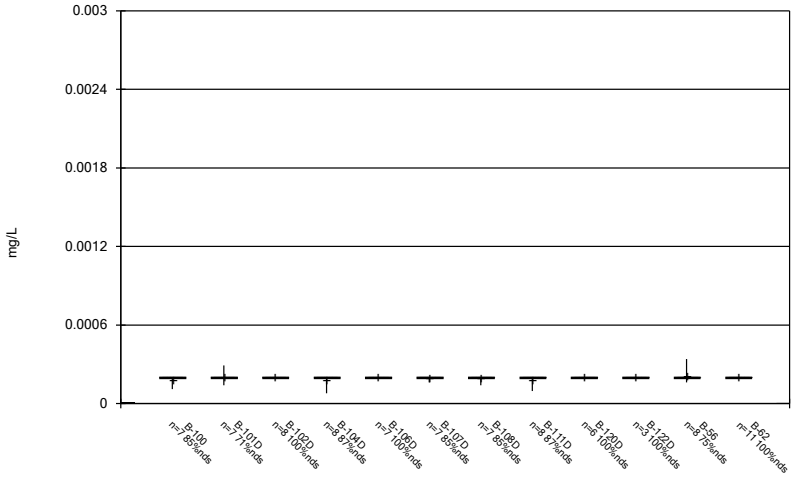

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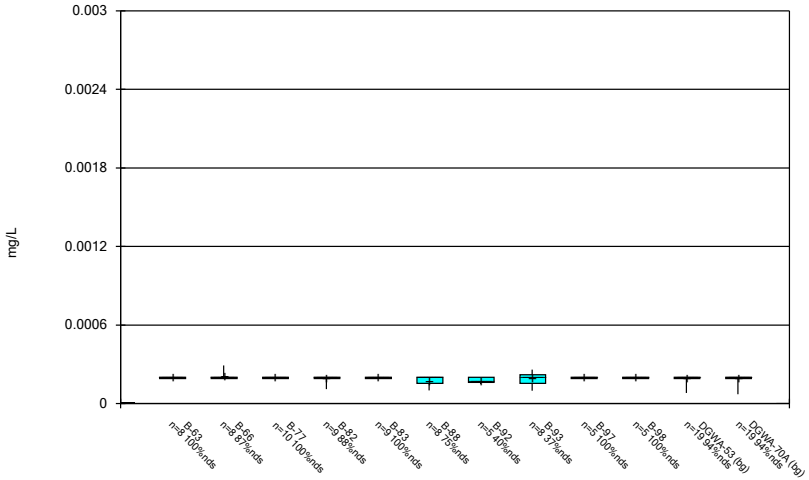

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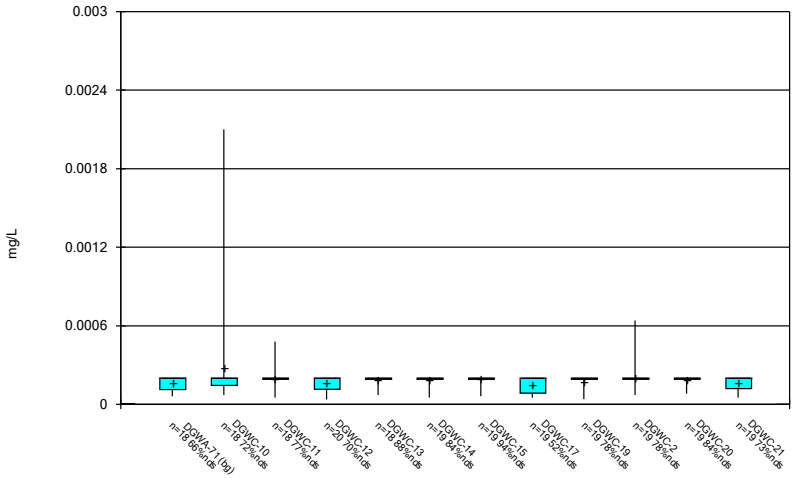
Box & Whiskers Plot



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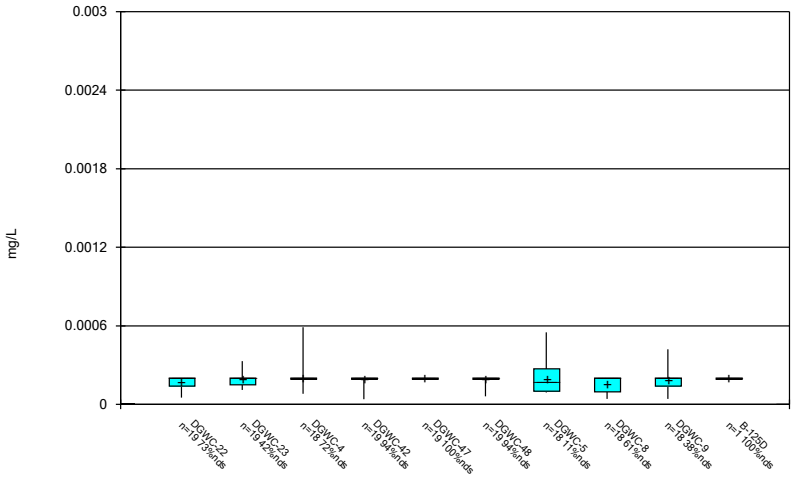

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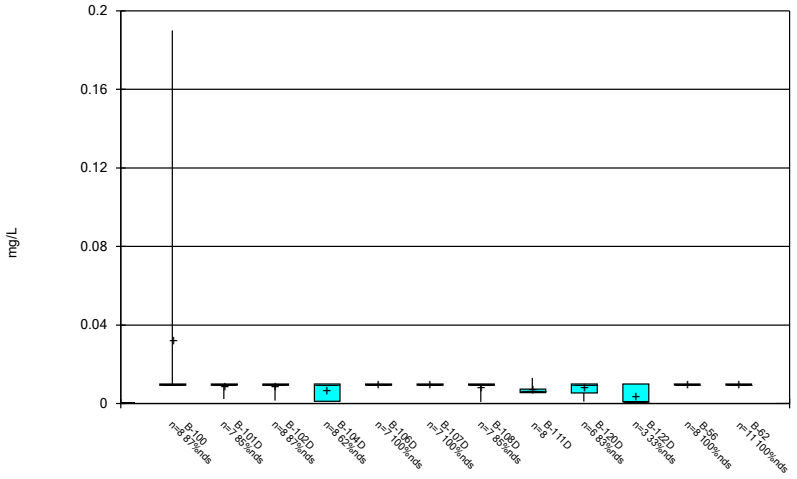
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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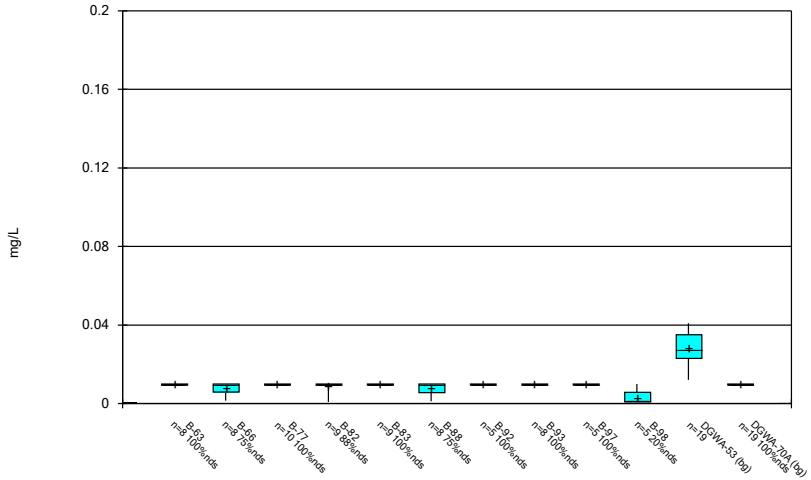
Box & Whiskers Plot



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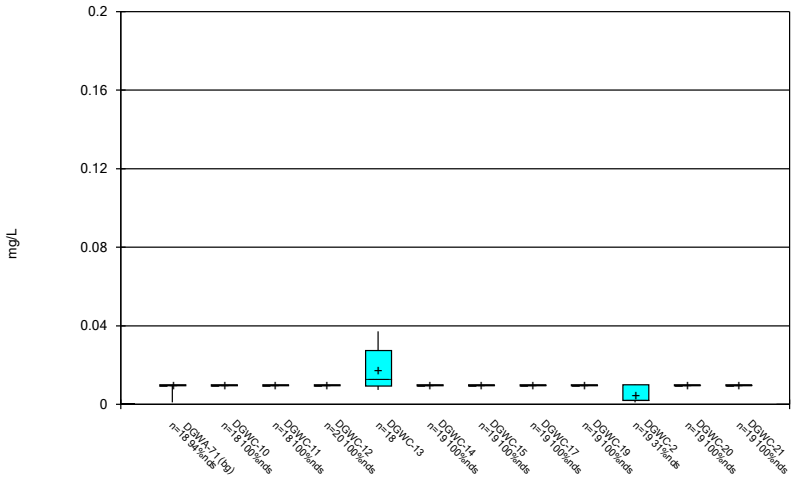

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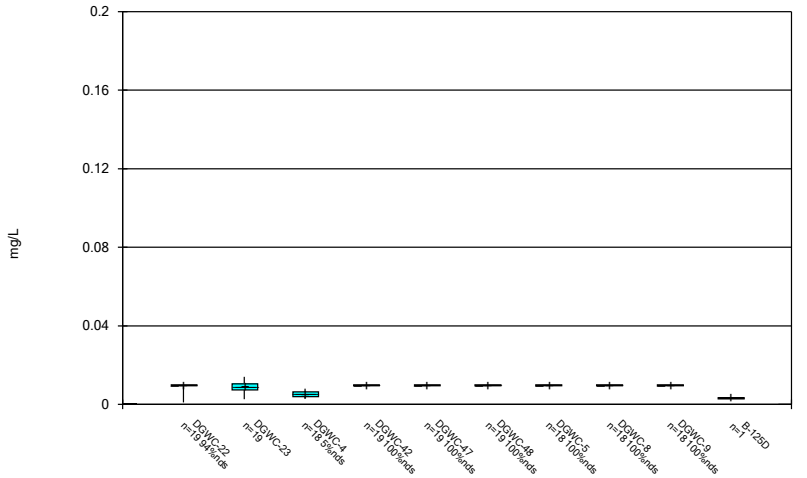
Box & Whiskers Plot



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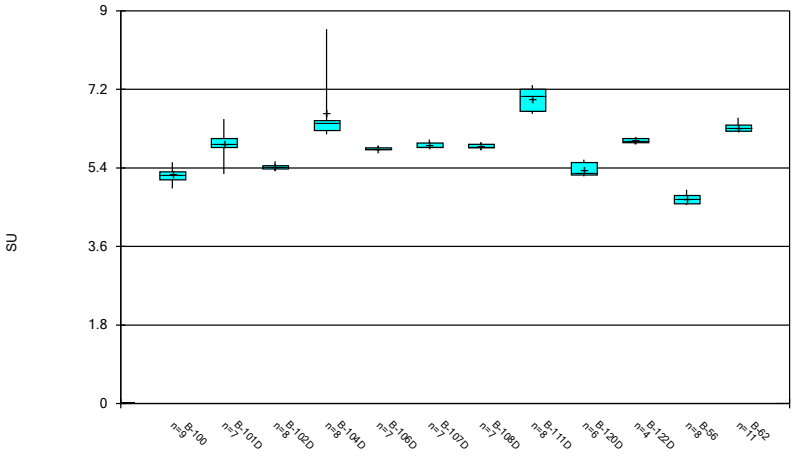
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 1/16/2024 2:08 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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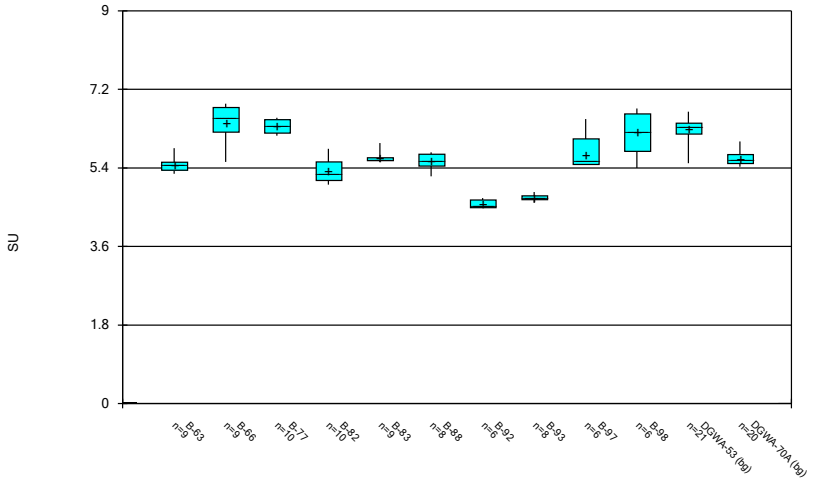
Box & Whiskers Plot



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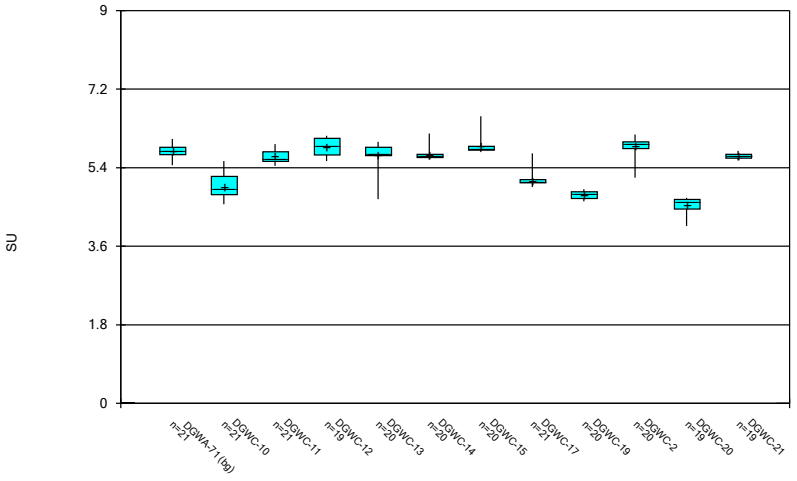

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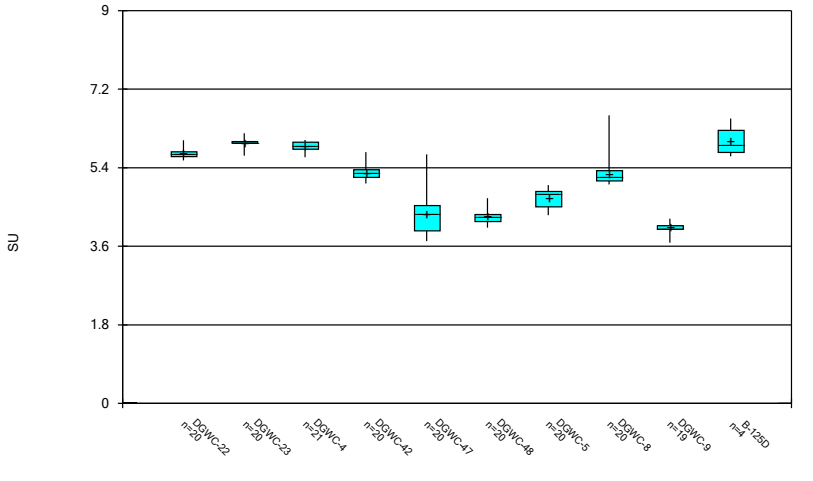

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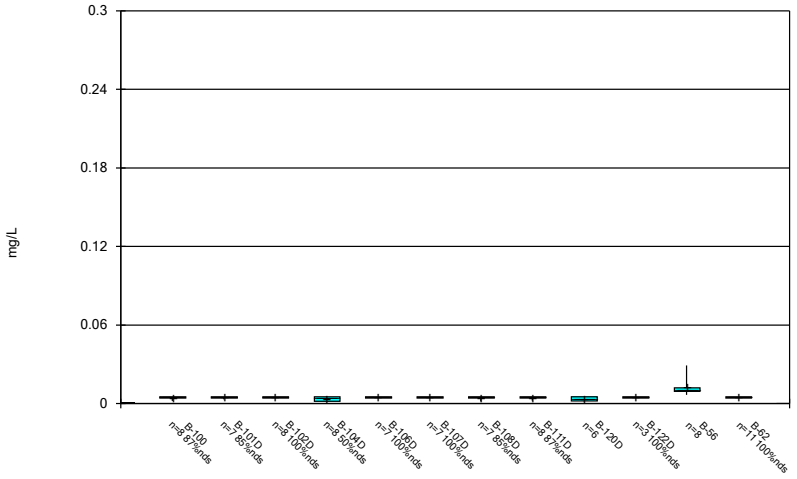
Box & Whiskers Plot



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Plant McDonough Client: Southern Company Data: McDonough AP

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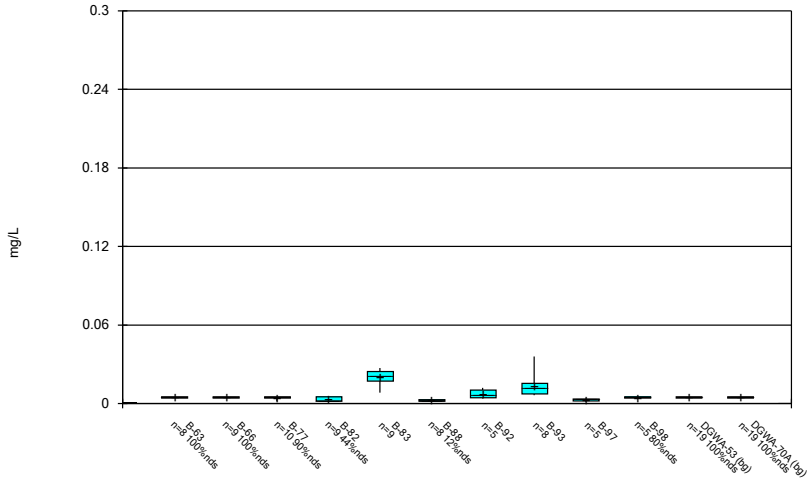
Box & Whiskers Plot



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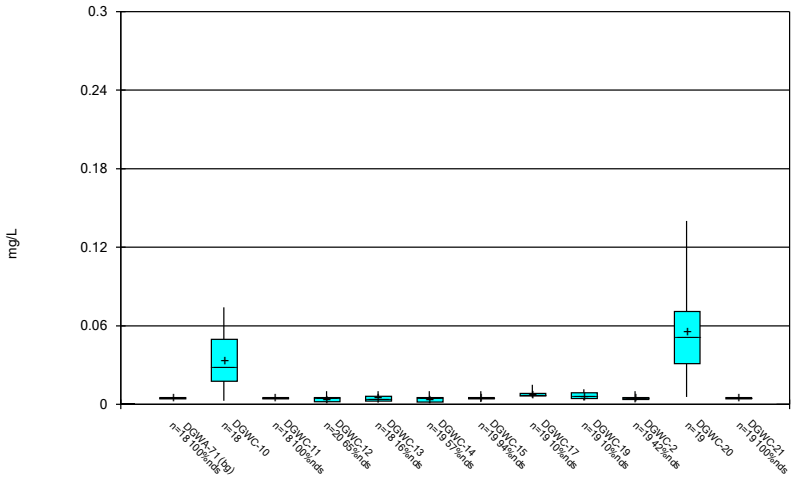

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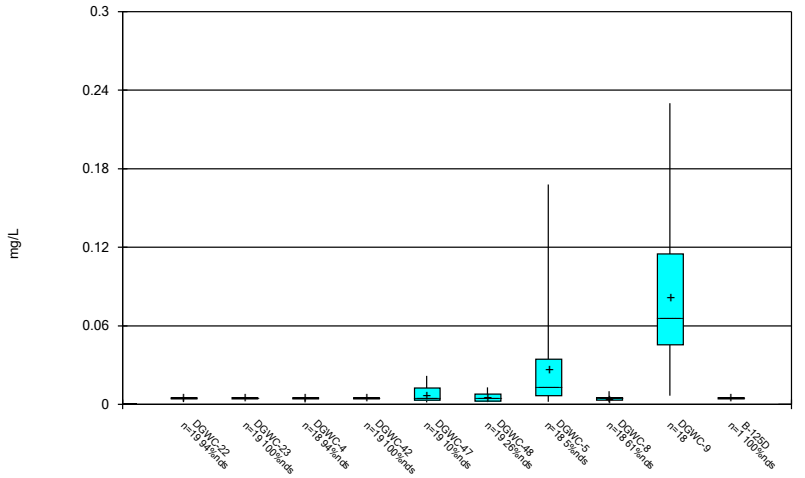

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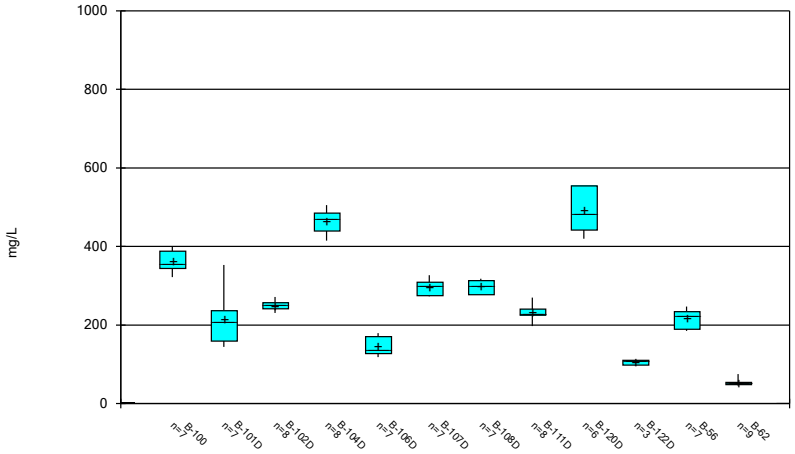

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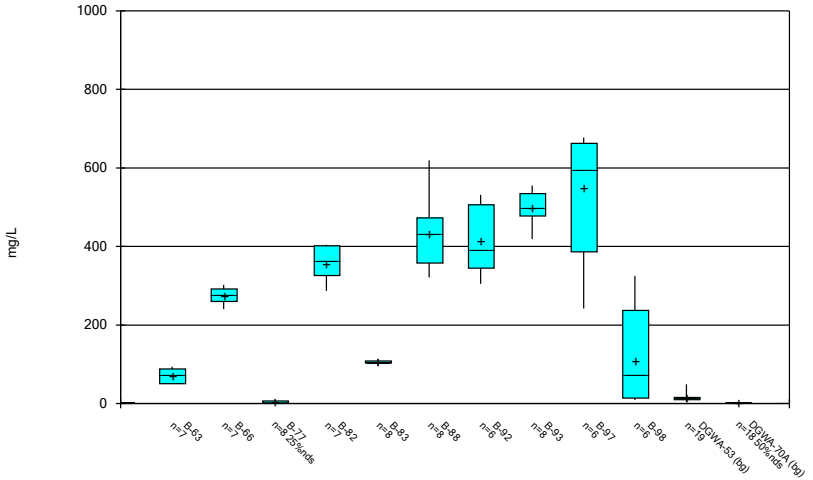

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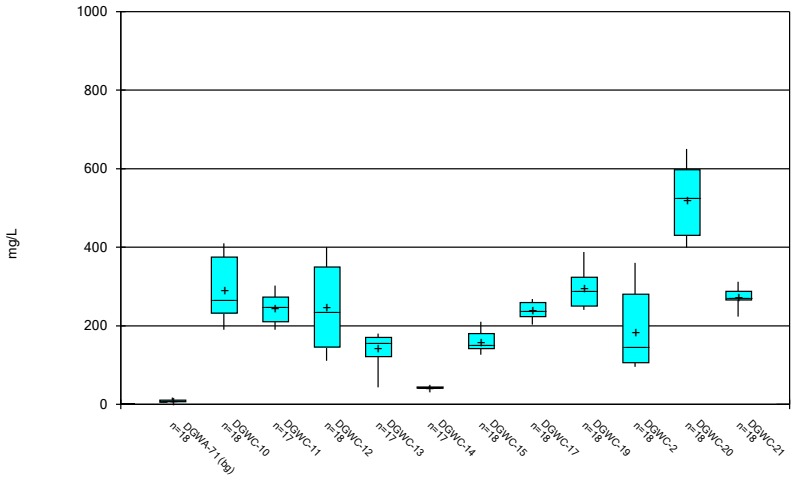

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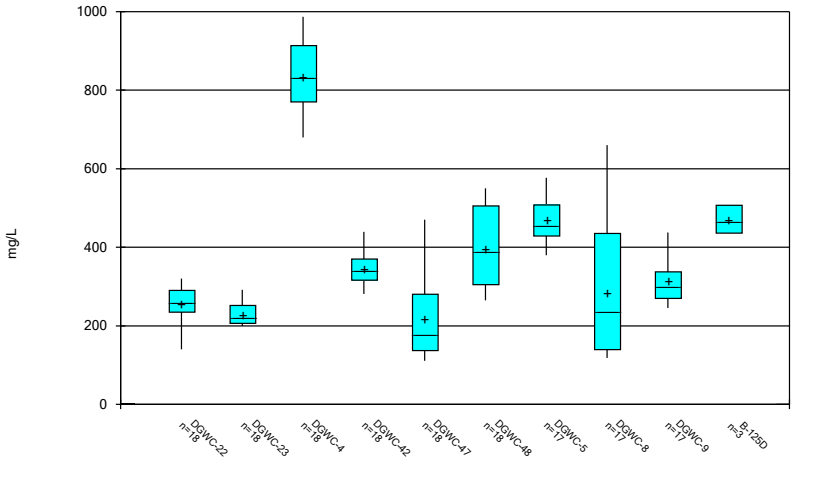

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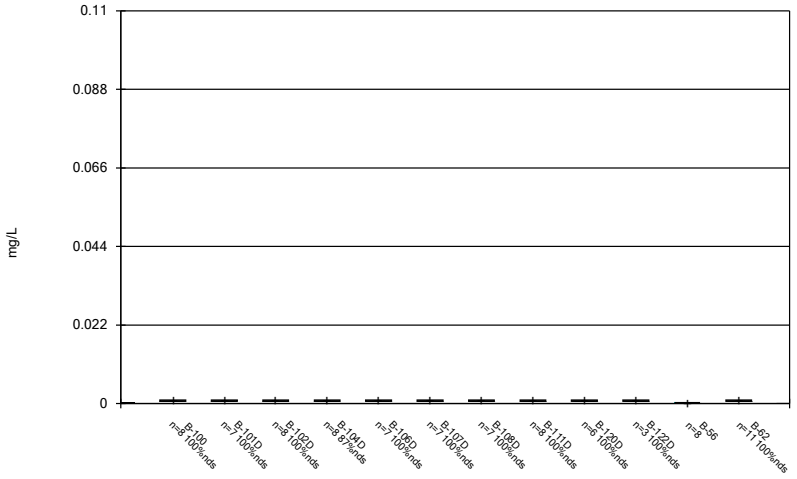

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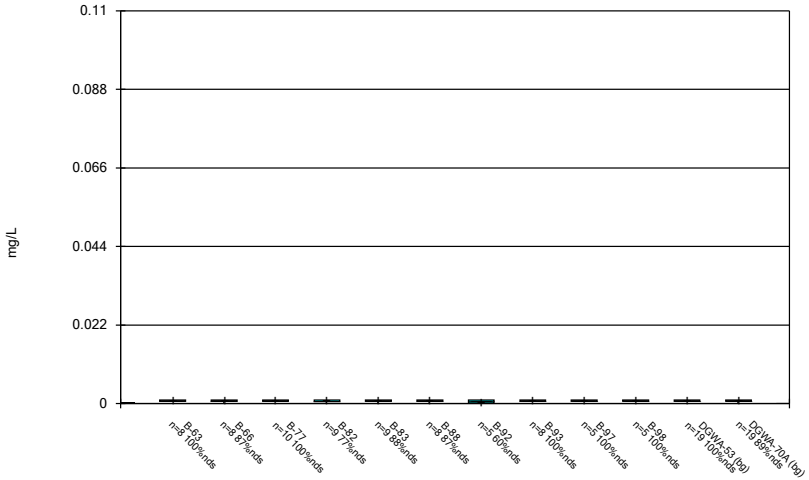
Box & Whiskers Plot



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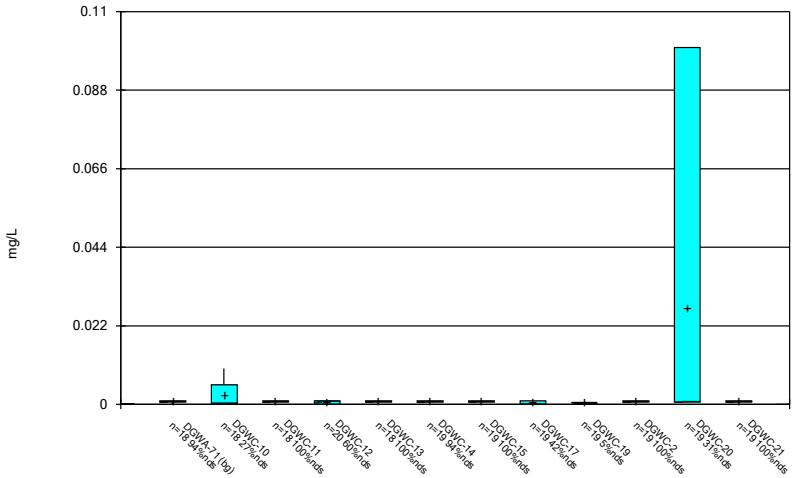

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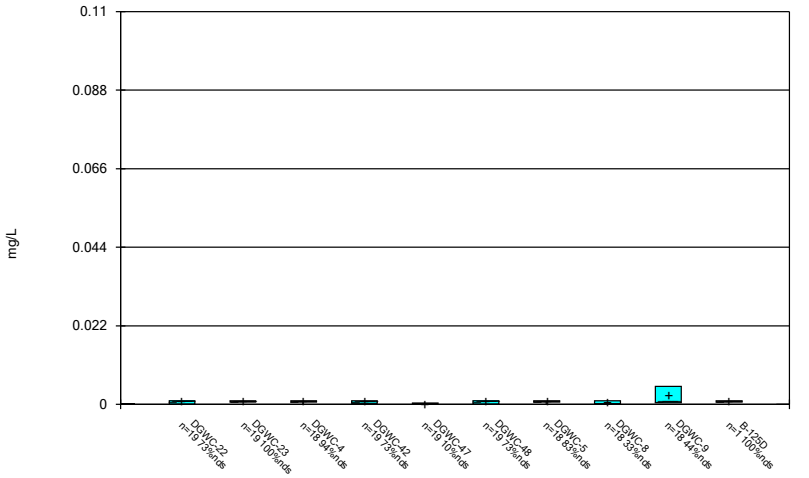

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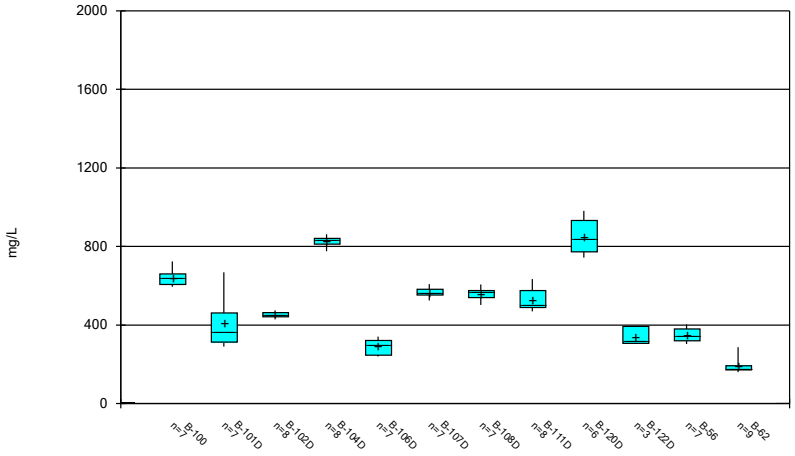

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:09 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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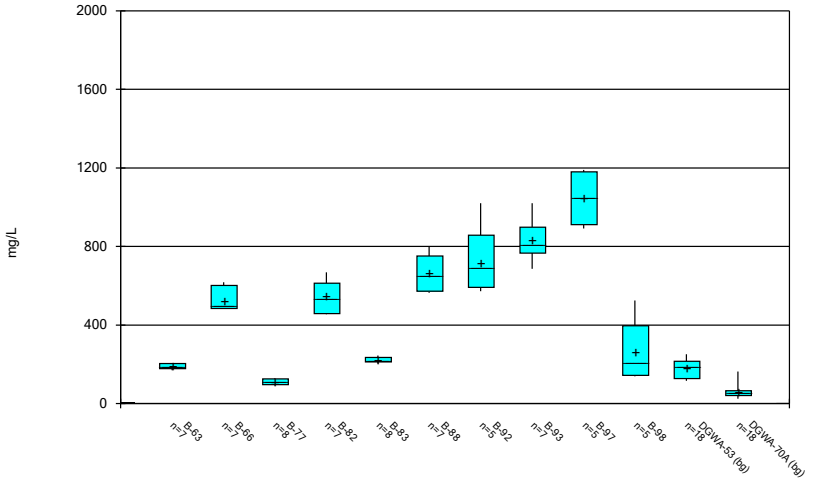
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:09 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

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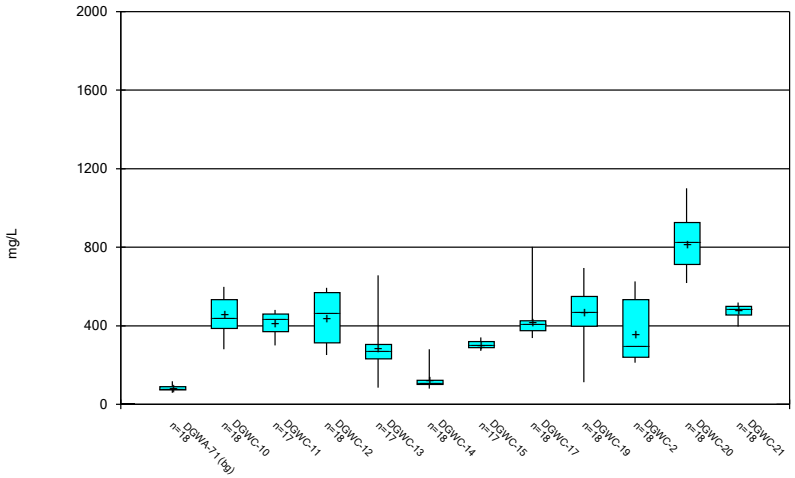
Box & Whiskers Plot



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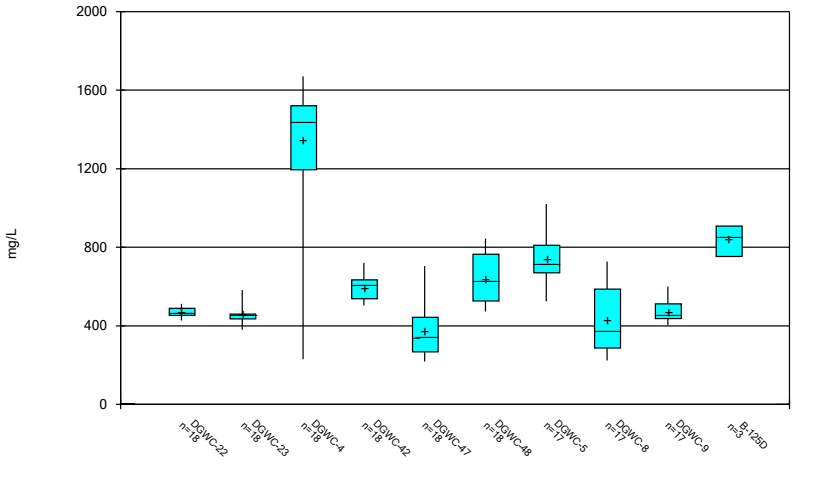
Sanitas™ v.10.0.15 Software licensed to . UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 2:09 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE C.

Outlier Summary

Plant McDonough Data: McDonough AP Printed 11/18/2023, 5:09 PM

	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 [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017				1.2 (O)				
3/29/2017						81 (O)		
7/12/2017								490 (O)
10/24/2017							671 (O)	
11/7/2018					<0.05 (O)			
10/15/2019			0.034 (O)					

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	9/11/2023	0.28	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	9/8/2023	1.7	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	9/11/2023	0.46	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	9/8/2023	0.55	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	9/8/2023	1.4	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	9/13/2023	1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	9/8/2023	2.2	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	9/13/2023	0.38	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	9/11/2023	2.5	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	9/11/2023	7.1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	9/11/2023	3.9	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	9/11/2023	4.4	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	9/13/2023	5.1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	9/13/2023	1.1	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	9/13/2023	0.57	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	9/13/2023	2.8	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	9/12/2023	0.75	Yes	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40.3	n/a	9/11/2023	72.7	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40.3	n/a	9/8/2023	58.6	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40.3	n/a	9/8/2023	115	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40.3	n/a	9/11/2023	114	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40.3	n/a	9/11/2023	88.4	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40.3	n/a	9/11/2023	61.2	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40.3	n/a	9/11/2023	95.4	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40.3	n/a	9/13/2023	279	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40.3	n/a	9/13/2023	55	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40.3	n/a	9/13/2023	152	Yes	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	8.2	n/a	9/11/2023	10.1	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-11	8.2	n/a	9/8/2023	11.2	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-13	8.2	n/a	9/8/2023	11.7	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-15	8.2	n/a	9/8/2023	20	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-17	8.2	n/a	9/13/2023	18.2	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-19	8.2	n/a	9/8/2023	15.8	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-20	8.2	n/a	9/11/2023	26.9	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-21	8.2	n/a	9/11/2023	17.8	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-22	8.2	n/a	9/11/2023	16.8	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-23	8.2	n/a	9/11/2023	12	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-4	8.2	n/a	9/13/2023	9.4	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-42	8.2	n/a	9/13/2023	18.4	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-5	8.2	n/a	9/13/2023	9.5	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-8	8.2	n/a	9/12/2023	9.5	Yes	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	9/11/2023	1.3	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	9/11/2023	1.5	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	9/12/2023	0.51	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	9/13/2023	0.51	Yes	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	9/11/2023	4.56	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	9/13/2023	5.04	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	9/8/2023	4.78	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	9/11/2023	4.06	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	9/12/2023	5.04	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	9/12/2023	3.99	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	9/13/2023	4.06	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	9/13/2023	4.74	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	9/12/2023	5.02	Yes	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-10	49	n/a	9/11/2023	258	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-11	49	n/a	9/8/2023	256	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-12	49	n/a	9/11/2023	132	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-13	49	n/a	9/8/2023	98.7	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-15	49	n/a	9/8/2023	126	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-17	49	n/a	9/13/2023	255	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-19	49	n/a	9/8/2023	369	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-2	49	n/a	9/13/2023	95.5	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-20	49	n/a	9/11/2023	552	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-21	49	n/a	9/11/2023	268	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-22	49	n/a	9/11/2023	236	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-23	49	n/a	9/11/2023	275	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-4	49	n/a	9/13/2023	852	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-42	49	n/a	9/13/2023	294	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-47	49	n/a	9/12/2023	119	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-48	49	n/a	9/13/2023	268	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-5	49	n/a	9/13/2023	576	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-8	49	n/a	9/12/2023	134	Yes	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	262.4	n/a	9/11/2023	436	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	262.4	n/a	9/8/2023	451	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	262.4	n/a	9/11/2023	302	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	262.4	n/a	9/8/2023	274	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	262.4	n/a	9/13/2023	480	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	262.4	n/a	9/8/2023	634	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	262.4	n/a	9/11/2023	960	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	262.4	n/a	9/11/2023	519	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	262.4	n/a	9/11/2023	460	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	262.4	n/a	9/11/2023	582	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	262.4	n/a	9/13/2023	1520	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	262.4	n/a	9/13/2023	545	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	262.4	n/a	9/13/2023	473	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	262.4	n/a	9/13/2023	1020	Yes	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**DGWC-10**	**0.13**	**n/a**	**9/11/2023**	**0.28**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-11**	**0.13**	**n/a**	**9/8/2023**	**1.7**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-12**	**0.13**	**n/a**	**9/11/2023**	**0.46**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-13**	**0.13**	**n/a**	**9/8/2023**	**0.55**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-14	0.13	n/a	9/8/2023	0.11	No	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-15**	**0.13**	**n/a**	**9/8/2023**	**1.4**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-17**	**0.13**	**n/a**	**9/13/2023**	**1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-19**	**0.13**	**n/a**	**9/8/2023**	**2.2**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-2**	**0.13**	**n/a**	**9/13/2023**	**0.38**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-20**	**0.13**	**n/a**	**9/11/2023**	**2.5**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-21**	**0.13**	**n/a**	**9/11/2023**	**7.1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-22**	**0.13**	**n/a**	**9/11/2023**	**3.9**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-23**	**0.13**	**n/a**	**9/11/2023**	**4.4**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-4**	**0.13**	**n/a**	**9/13/2023**	**5.1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-42**	**0.13**	**n/a**	**9/13/2023**	**1.1**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-47	0.13	n/a	9/12/2023	0.1	No	53	n/a	n/a	24.53	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-48**	**0.13**	**n/a**	**9/13/2023**	**0.57**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-5**	**0.13**	**n/a**	**9/13/2023**	**2.8**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-8**	**0.13**	**n/a**	**9/12/2023**	**0.75**	**Yes**	**53**	**n/a**	**n/a**	**24.53**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-10**	**40.3**	**n/a**	**9/11/2023**	**72.7**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-11**	**40.3**	**n/a**	**9/8/2023**	**58.6**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-12	40.3	n/a	9/11/2023	30.8	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40.3	n/a	9/8/2023	32.7	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40.3	n/a	9/8/2023	12	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40.3	n/a	9/8/2023	34.3	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40.3	n/a	9/13/2023	19.8	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-19**	**40.3**	**n/a**	**9/8/2023**	**115**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-2	40.3	n/a	9/13/2023	33.6	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-20**	**40.3**	**n/a**	**9/11/2023**	**114**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-21**	**40.3**	**n/a**	**9/11/2023**	**88.4**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-22**	**40.3**	**n/a**	**9/11/2023**	**61.2**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-23**	**40.3**	**n/a**	**9/11/2023**	**95.4**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-4**	**40.3**	**n/a**	**9/13/2023**	**279**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-42	40.3	n/a	9/13/2023	33.6	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40.3	n/a	9/12/2023	21.9	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-48**	**40.3**	**n/a**	**9/13/2023**	**55**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-5**	**40.3**	**n/a**	**9/13/2023**	**152**	**Yes**	**53**	**n/a**	**n/a**	**3.774**	**n/a**	**n/a**	**0.0006476**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-8	40.3	n/a	9/12/2023	30	No	53	n/a	n/a	3.774	n/a	n/a	0.0006476	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-10**	**8.2**	**n/a**	**9/11/2023**	**10.1**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-11**	**8.2**	**n/a**	**9/8/2023**	**11.2**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-12	8.2	n/a	9/11/2023	6.5	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-13**	**8.2**	**n/a**	**9/8/2023**	**11.7**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-14	8.2	n/a	9/8/2023	3.5	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-15**	**8.2**	**n/a**	**9/8/2023**	**20**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-17**	**8.2**	**n/a**	**9/13/2023**	**18.2**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-19**	**8.2**	**n/a**	**9/8/2023**	**15.8**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-2	8.2	n/a	9/13/2023	1.9	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-20**	**8.2**	**n/a**	**9/11/2023**	**26.9**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-21**	**8.2**	**n/a**	**9/11/2023**	**17.8**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-22**	**8.2**	**n/a**	**9/11/2023**	**16.8**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-23**	**8.2**	**n/a**	**9/11/2023**	**12**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-4**	**8.2**	**n/a**	**9/13/2023**	**9.4**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-42**	**8.2**	**n/a**	**9/13/2023**	**18.4**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-47	8.2	n/a	9/12/2023	2.4	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-48	8.2	n/a	9/13/2023	6.5	No	55	n/a	n/a	0	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-5**	**8.2**	**n/a**	**9/13/2023**	**9.5**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-8**	**8.2**	**n/a**	**9/12/2023**	**9.5**	**Yes**	**55**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-10**	**0.42**	**n/a**	**9/11/2023**	**1.3**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-11	0.42	n/a	9/8/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	9/11/2023	0.13	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	9/8/2023	0.055J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	9/8/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	9/8/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	9/13/2023	0.1	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	9/8/2023	0.17	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	9/13/2023	0.083J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-20**	**0.42**	**n/a**	**9/11/2023**	**1.5**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-21	0.42	n/a	9/11/2023	0.054J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-22	0.42	n/a	9/11/2023	0.054J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	9/11/2023	0.1	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	9/13/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	9/13/2023	0.1ND	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-47**	**0.42**	**n/a**	**9/12/2023**	**0.51**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-48**	**0.42**	**n/a**	**9/13/2023**	**0.51**	**Yes**	**60**	**n/a**	**n/a**	**48.33**	**n/a**	**n/a**	**0.0005055**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-5	0.42	n/a	9/13/2023	0.14	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	9/12/2023	0.091J	No	60	n/a	n/a	48.33	n/a	n/a	0.0005055	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-10**	**6.69**	**5.43**	**9/11/2023**	**4.56**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-11	6.69	5.43	9/8/2023	5.44	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	9/11/2023	6.1	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	9/8/2023	5.59	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	9/8/2023	5.67	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	9/8/2023	5.81	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-17**	**6.69**	**5.43**	**9/13/2023**	**5.04**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.69**	**5.43**	**9/8/2023**	**4.78**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-2	6.69	5.43	9/13/2023	6.06	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-20**	**6.69**	**5.43**	**9/11/2023**	**4.06**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-21	6.69	5.43	9/11/2023	5.61	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	9/11/2023	5.57	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	9/11/2023	5.99	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	9/13/2023	5.64	No	62	n/a	n/a	0	n/a	n/a	0.0009598	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-42**	**6.69**	**5.43**	**9/12/2023**	**5.04**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.69**	**5.43**	**9/12/2023**	**3.99**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.69**	**5.43**	**9/13/2023**	**4.06**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.69**	**5.43**	**9/13/2023**	**4.74**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-8**	**6.69**	**5.43**	**9/12/2023**	**5.02**	**Yes**	**62**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009598**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-10**	**49**	**n/a**	**9/11/2023**	**258**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-11**	**49**	**n/a**	**9/8/2023**	**256**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-12**	**49**	**n/a**	**9/11/2023**	**132**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-13**	**49**	**n/a**	**9/8/2023**	**98.7**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	DGWC-14	49	n/a	9/8/2023	43.1	No	55	n/a	n/a	16.36	n/a	n/a	0.0006069	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**DGWC-15**	**49**	**n/a**	**9/8/2023**	**126**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-17**	**49**	**n/a**	**9/13/2023**	**255**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-19**	**49**	**n/a**	**9/8/2023**	**369**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-2**	**49**	**n/a**	**9/13/2023**	**95.5**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-20**	**49**	**n/a**	**9/11/2023**	**552**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-21**	**49**	**n/a**	**9/11/2023**	**268**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-22**	**49**	**n/a**	**9/11/2023**	**236**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-23**	**49**	**n/a**	**9/11/2023**	**275**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-4**	**49**	**n/a**	**9/13/2023**	**852**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-42**	**49**	**n/a**	**9/13/2023**	**294**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-47**	**49**	**n/a**	**9/12/2023**	**119**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-48**	**49**	**n/a**	**9/13/2023**	**268**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-5**	**49**	**n/a**	**9/13/2023**	**576**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-8**	**49**	**n/a**	**9/12/2023**	**134**	**Yes**	**55**	**n/a**	**n/a**	**16.36**	**n/a**	**n/a**	**0.0006069**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**262.4**	**n/a**	**9/11/2023**	**436**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**262.4**	**n/a**	**9/8/2023**	**451**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**262.4**	**n/a**	**9/11/2023**	**302**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	262.4	n/a	9/8/2023	217	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	262.4	n/a	9/8/2023	156	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**262.4**	**n/a**	**9/8/2023**	**274**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**262.4**	**n/a**	**9/13/2023**	**480**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**262.4**	**n/a**	**9/8/2023**	**634**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	262.4	n/a	9/13/2023	212	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**262.4**	**n/a**	**9/11/2023**	**960**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**262.4**	**n/a**	**9/11/2023**	**519**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**262.4**	**n/a**	**9/11/2023**	**460**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**262.4**	**n/a**	**9/11/2023**	**582**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**262.4**	**n/a**	**9/13/2023**	**1520**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**262.4**	**n/a**	**9/13/2023**	**545**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	262.4	n/a	9/12/2023	218	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**262.4**	**n/a**	**9/13/2023**	**473**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**262.4**	**n/a**	**9/13/2023**	**1020**	**Yes**	**54**	**9.841**	**2.893**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	262.4	n/a	9/12/2023	251	No	54	9.841	2.893	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

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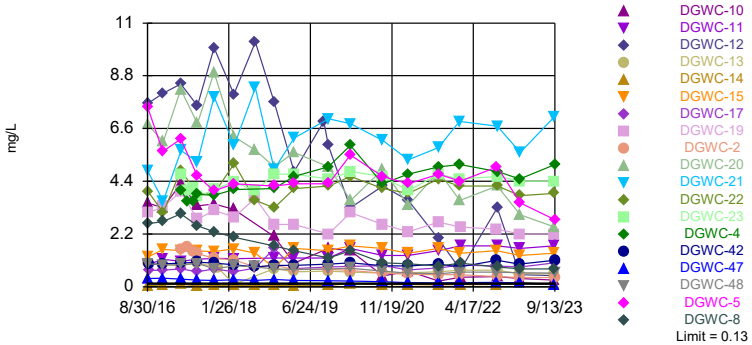
Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 24.53% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Boron Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

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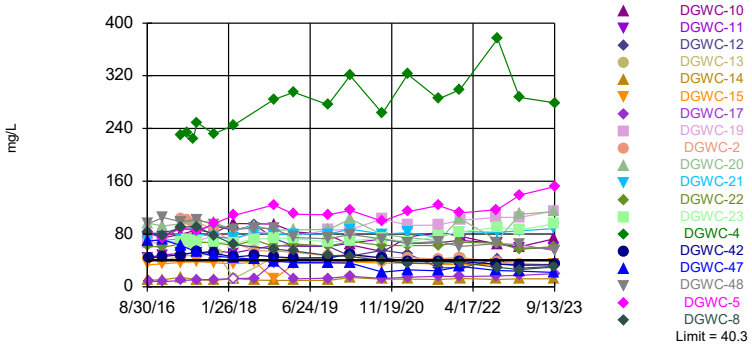
Hollow symbols indicate censored values.

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 53 background values. 3.774% NDs. Annual per-constituent alpha = 0.02558. Individual comparison alpha = 0.0006476 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Calcium Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

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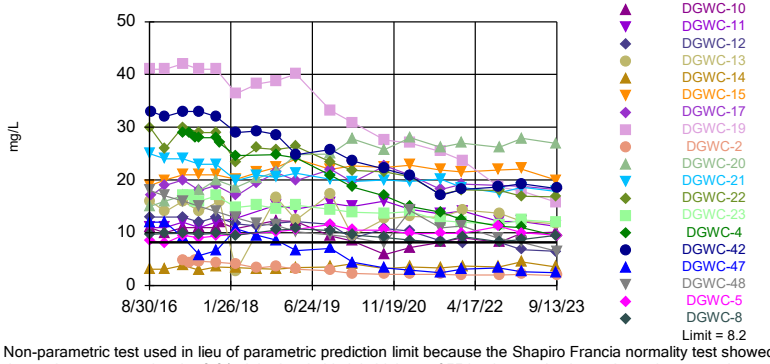
Exceeds Limit: DGWC-10, DGWC-11, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

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 55 background values. Annual per-constituent alpha = 0.02399. Individual comparison alpha = 0.0006069 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Chloride Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

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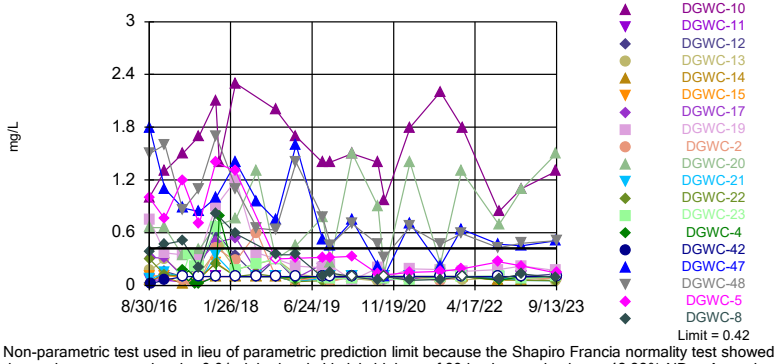
Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48

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 60 background values. 48.33% NDs. Annual per-constituent alpha = 0.02002. Individual comparison alpha = 0.0005055 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Fluoride Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

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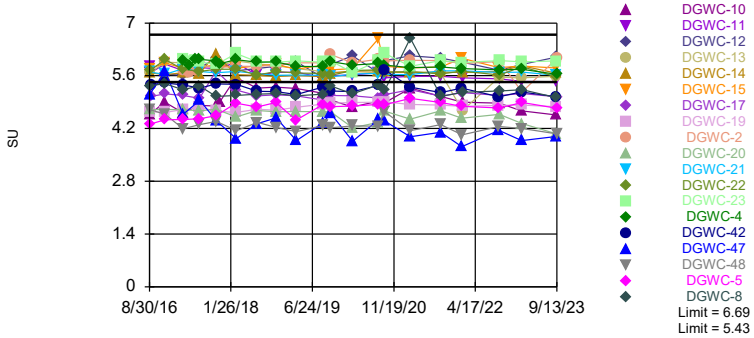
Exceeds Limits: DGWC-10, DGWC-17, DGWC-19, DGWC-20, DGWC-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8

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 62 background values. Annual per-constituent alpha = 0.03804. Individual comparison alpha = 0.0009598 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: pH, Field Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

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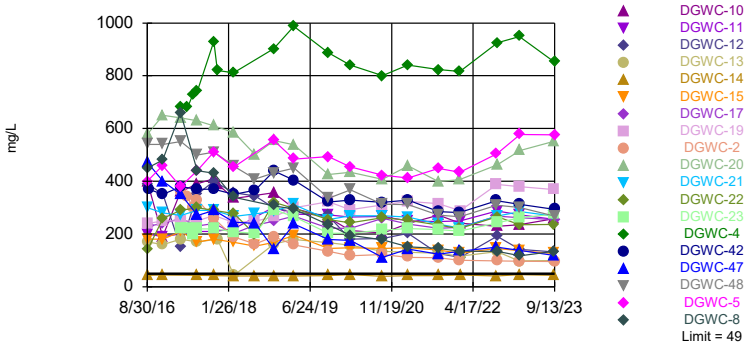
Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-13, DGWC-15, DGWC-17, DGWC-19, DGWC-2, DGWC-20, DGWC-21...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 55 background values. 16.36% NDs. Annual per-constituent alpha = 0.02399. Individual comparison alpha = 0.0006069 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Sulfate Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

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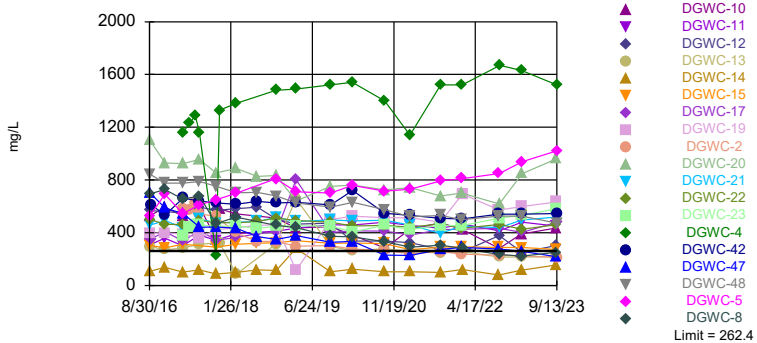
Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=9.841, Std. Dev.=2.893, n=54. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9587, critical = 0.939. Kappa = 2.198 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 19 points to limit. Assumes 1 future value.

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:14 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-11	DGWC-14	DGWC-5	DGWC-19	DGWC-12	DGWC-47	DGWC-48
8/30/2016	2.63								
8/31/2016		3.5	0.914	0.0419 (J)	7.5				
9/1/2016						3.08	7.64	0.345	0.955
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	2.72	3.3	1.15	0.0804	5.64				
12/7/2016						3.34	8.07		
12/8/2016								0.352	0.919
3/28/2017					6.16				
3/29/2017	3.04	4.3	1.07	0.103		3.96	8.46		
3/30/2017									0.925
3/31/2017								0.312	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	2.55				4.61				
7/12/2017		3.38	1.14	0.044		2.82	7.55		
7/13/2017								0.28	0.972
8/8/2017									
10/24/2017	2.29	3.45	1.18						
10/25/2017				0.0565	4	3.19	9.97		
10/26/2017								0.269	0.746
11/15/2017									
2/27/2018	2.07	3.23	1.17	0.0539	4.29		8.03		
2/28/2018						2.91			
3/1/2018								0.296	
3/2/2018									0.878
3/8/2018									
7/11/2018				0.057		3.7	10.2		
7/12/2018								0.26	0.82
11/6/2018	1.7	2.1	1.2		4.2				
11/7/2018				0.055		2.6	7.7	0.3	0.74
11/8/2018									
3/12/2019	1.5	0.98	1.2		4.3		4.8		
3/13/2019				0.047		2.6			
3/14/2019								0.26	0.72
9/17/2019							6.9		
10/15/2019		1.6	1.2				5.9		
10/16/2019	1.2			0.052	4.3	2.2			
10/17/2019								0.25	
10/18/2019									0.74
3/2/2020			1.6		5.5		3.3		
3/3/2020	1.5	1.5		0.15		3.1			
3/4/2020								0.24	0.77
3/9/2020									
9/22/2020			1.3	0.086 (J)	4.6	2.6	4.2		
9/23/2020	1							0.21	0.65
9/24/2020		0.45							
3/1/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-11	DGWC-14	DGWC-5	DGWC-19	DGWC-12	DGWC-47	DGWC-48
3/2/2021	0.96		1.3	0.089	4.3	2.3			
3/3/2021							3.6	0.17	0.57
3/4/2021		0.65							
3/12/2021									
9/8/2021									
9/9/2021			1.5	0.08		2.7	2		
9/10/2021		0.24			4.7			0.16	0.55
9/13/2021	0.86								
1/18/2022									
1/20/2022									
1/21/2022								0.17	
1/24/2022					4.4				0.61
1/25/2022	0.98		1.7	0.097		2.5	0.7		
1/26/2022		0.4							
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				0.091				0.18	0.61
9/14/2022					5	2.4			
9/15/2022	0.83	0.42	1.7				3.3		
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023				0.16					
2/2/2023		0.34							
2/3/2023								0.16	0.59
2/6/2023			1.6			2.2	0.51		
2/7/2023	0.74				3.5				
9/6/2023									
9/7/2023									
9/8/2023			1.7	0.11		2.2			
9/11/2023		0.28					0.46		
9/12/2023	0.75							0.1	
9/13/2023					2.8				0.57

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4	DGWA-70A (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	6.77	4.81	3.99						
9/6/2016				1	1.25				
9/7/2016						0.924	0.683		
12/6/2016									
12/7/2016	6.04			0.9	1.56				
12/8/2016		3.57	3.1			0.957	0.688		
3/28/2017								4.01	0.0067 (J)
3/29/2017	8.23		4.85						
3/30/2017		5.68		0.898	1.5		0.743		
3/31/2017						0.989			
5/11/2017									
5/12/2017								3.58	
5/15/2017									0.0073 (J)
6/15/2017								3.58	<0.04
6/16/2017									
7/11/2017								3.85	<0.04
7/12/2017	6.81	5.2		0.996	1.49		0.62		
7/13/2017			3.85			1.03			
8/8/2017									<0.04
10/24/2017								3.82	0.0082 (J)
10/25/2017	8.94	7.92	3.9		1.47	0.982	0.739		
10/26/2017									
11/15/2017				0.795					
2/27/2018								4.06	0.0062 (J)
2/28/2018	6.26	5.89	5.14	0.106	1.58	0.918	0.627		
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	5.7	8.3			1.4	0.83	0.79		
7/12/2018			3.6						
11/6/2018								4.1	<0.04 (J)
11/7/2018	5	4.9	3.3	0.76	0.8	0.89	1.6		
11/8/2018									
3/12/2019								4.6	0.0073 (J)
3/13/2019	5.6	6.2		0.62			0.76		
3/14/2019			4.1		1.6	0.89			
9/17/2019									
10/15/2019								5	<0.04
10/16/2019				0.65					
10/17/2019	5	7			1.5	0.94			
10/18/2019			4.2				0.82		
3/2/2020								5.9	0.0055 (J)
3/3/2020		6.8	4.6	0.61	1.7				
3/4/2020	3.6					1	0.85		
3/9/2020									
9/22/2020	4.9					0.88		4.3	<0.04
9/23/2020				0.57	1.6				
9/24/2020		6.1	4.1				0.88		
3/1/2021								4.7	<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-4	DGWA-70A (bg)
3/2/2021	3.4			0.58	1.4				
3/3/2021		5.3	3.9			0.87	0.71		
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021		5.8		0.62	1.6				<0.04
9/10/2021	4.8		4.5					5	
9/13/2021						0.95	0.78		
1/18/2022									0.024 (J)
1/20/2022		6.9	4.2			0.83			
1/21/2022	3.6								
1/24/2022					1.4		0.9	5.1	
1/25/2022				0.69					
1/26/2022									
1/28/2022									
9/7/2022									<0.04
9/8/2022									
9/13/2022					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								4.8	
9/20/2022									
1/31/2023									0.011 (J)
2/1/2023				0.54		0.94			
2/2/2023					1.3				
2/3/2023								4.5	
2/6/2023			3.8				0.83		
2/7/2023	3	5.6							
9/6/2023									0.012 (J)
9/7/2023									
9/8/2023				0.55	1.4				
9/11/2023	2.5	7.1	3.9						
9/12/2023									
9/13/2023						1.1	1	5.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
8/30/2016				
8/31/2016				
9/1/2016				
9/2/2016				
9/6/2016				
9/7/2016				
12/6/2016				
12/7/2016				
12/8/2016				
3/28/2017	0.0097 (J)	0.0612		
3/29/2017				
3/30/2017			1.56	4.68
3/31/2017				
5/11/2017		0.0805	1.65	
5/12/2017	0.0082 (J)			4.03
5/15/2017				
6/15/2017		0.0725	1.44	4.11
6/16/2017	0.0085 (J)			
7/11/2017	0.0077 (J)		1.39	
7/12/2017		0.0735		3.74
7/13/2017				
8/8/2017				
10/24/2017	0.0083 (J)	0.077	1.18	
10/25/2017				
10/26/2017				4.07
11/15/2017				
2/27/2018	0.0069 (J)		1.12	
2/28/2018				
3/1/2018				4.37
3/2/2018				
3/8/2018		0.13 (J)		
7/11/2018			0.82	
7/12/2018		0.076		4
11/6/2018	<0.04 (J)		0.9	
11/7/2018		0.073		
11/8/2018				4.7
3/12/2019	0.0068 (J)		0.72	
3/13/2019		0.08		
3/14/2019				4.7
9/17/2019				
10/15/2019	0.0054 (J)			
10/16/2019		0.059		
10/17/2019			0.73	
10/18/2019				4.5
3/2/2020	0.01 (J)			
3/3/2020			0.68	
3/4/2020				4.8
3/9/2020		0.08 (J)		
9/22/2020	<0.04	0.056 (J)		
9/23/2020			0.57	
9/24/2020				4.6
3/1/2021	0.0054 (J)			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
3/2/2021			0.52	
3/3/2021				4
3/4/2021				
3/12/2021		0.064		
9/8/2021	<0.04			
9/9/2021		0.065	0.51	4.7
9/10/2021				
9/13/2021				
1/18/2022	0.015 (J)			
1/20/2022			0.5	4.5
1/21/2022				
1/24/2022				
1/25/2022				
1/26/2022				
1/28/2022		0.062		
9/7/2022	<0.04			
9/8/2022		0.054		
9/13/2022				
9/14/2022				
9/15/2022				
9/16/2022				
9/19/2022				
9/20/2022			0.42	4.6
1/31/2023	0.0097 (J)			
2/1/2023		0.051		
2/2/2023				
2/3/2023				
2/6/2023			0.38	4.4
2/7/2023				
9/6/2023	0.015 (J)			
9/7/2023		0.052		
9/8/2023				
9/11/2023				4.4
9/12/2023				
9/13/2023			0.38	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-11	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-48	DGWC-47
8/30/2016	82.7								
8/31/2016		81.7	44.2	9.95	82.6				
9/1/2016						80.6	65.6	95.1	69.3
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	74.2	48.3	10.4	73.9				
12/7/2016						82.1	68.3		
12/8/2016								105	71.1
3/28/2017					89.1				
3/29/2017	90.5	79.5	50.5	14.4		88.3	68		
3/30/2017								98.6	
3/31/2017									62.6
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	91.1				84.6				
7/12/2017		86.3	50.8	10.5		87	70		
7/13/2017								102	52.5
8/8/2017									
10/24/2017	78.1	81.5	55						
10/25/2017				9.67	95.6	92.1	77		
10/26/2017								94	46.7
11/15/2017									
2/27/2018	64.2	96.2	51.4	<25	108	85.6			
2/28/2018							72		
3/1/2018									44.2
3/2/2018								86.6	
3/8/2018									
7/11/2018				9.9		93.6	82.7		
7/12/2018								89.1	41.6
11/6/2018	57	94.8	62.6		124				
11/7/2018				9.7		73.3	81.7	88	38.6
11/8/2018									
3/12/2019	54.3	83.5	61.4		110	62.1			
3/13/2019				9.7			76.9		
3/14/2019								74.6	36.6
10/15/2019		79.1	61.2			61.4			
10/16/2019	47.3			9.4	109		85.7		
10/17/2019									36.2
10/18/2019								72.7	
3/2/2020			65.8		116	46.5			
3/3/2020	46	63.6		14			86.8		
3/4/2020								79.7	36
3/9/2020									
9/22/2020			72.7	11.6	99.2	55.4	103		
9/23/2020	39.3							72.2	22.3
9/24/2020		53.1							
3/1/2021									
3/2/2021	35.6		65.3	11.4	114		93.2		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-11	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-48	DGWC-47
3/3/2021						50.1		66	25.5
3/4/2021		75.8							
3/12/2021									
9/8/2021									
9/9/2021			66.8	11.1		29.2	93.6		
9/10/2021		82.4			123			68.7	24.4
9/13/2021	36								
1/18/2022									
1/20/2022									
1/21/2022									31
1/24/2022					112			61.2	
1/25/2022	36.8		70.2	12.4		28.5	101		
1/26/2022		76.8							
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				11.2				65.3	24.8
9/14/2022					117		105		
9/15/2022	29.3	64.4	66.6			41.5			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023				11.9					
2/2/2023		60.8							
2/3/2023								64.1	23.7
2/6/2023			58.8			28.3	105		
2/7/2023	26				139				
9/6/2023									
9/7/2023									
9/8/2023			58.6	12			115		
9/11/2023		72.7				30.8			
9/12/2023	30								21.9
9/13/2023					152			55	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	70.2	61.6	96.3						
9/6/2016				44	33.6				
9/7/2016						8.61	43.6		
12/6/2016									
12/7/2016			91.9	39.8	34.7				
12/8/2016	70.1	60.1				7.92	45.8		
3/28/2017								30.8	229
3/29/2017		64.7	95.7						
3/30/2017	72.5			46.3	36.9	9.56			
3/31/2017							48.3		
5/11/2017								35.8	
5/12/2017									233
5/15/2017									
6/15/2017								36	224
6/16/2017									
7/11/2017									249
7/12/2017	80.4		100	47.8	38.4	10.4		40.3	
7/13/2017		67.2					52.3		
8/8/2017									
10/24/2017								30.3	232
10/25/2017	75.6	66.8	97.3		36.2	10.9	50.9		
10/26/2017									
11/15/2017				49.3					
2/27/2018									245
2/28/2018	73.2	62.3	86.3	<25	35	<25	45.1		
3/1/2018									
3/2/2018									
3/8/2018								39.8	
7/11/2018	82.3		92.4		37.5	13 (J)	47.8		
7/12/2018		71						34.7	
11/6/2018									284
11/7/2018	78.5	60.9	85.9	44.8	11.4	37	45.5	28.6	
11/8/2018									
3/12/2019									295
3/13/2019	79.9		86.4	42.1		11.9 (J)		26.7	
3/14/2019		64.8			34.7		43.5		
10/15/2019									276
10/16/2019				43.8				17.7	
10/17/2019	79.8		86.9		37		44.1		
10/18/2019		61.7				12.9			
3/2/2020									320
3/3/2020	87.4	68.7		49.3	37.8				
3/4/2020			103			15.8	48.8		
3/9/2020								23.7	
9/22/2020			79.2				43.8	15.5	263
9/23/2020				39	35.6				
9/24/2020	80	62.6				12.7			
3/1/2021									322
3/2/2021			74.7	40.5	36				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)	DGWC-4
3/3/2021	82.1	62.3				14.3	38.8		
3/4/2021									
3/12/2021								18.4	
9/8/2021									
9/9/2021	75.3			38.2	34.4			18.3	
9/10/2021		62.3	69.8						285
9/13/2021						15.8	38.9		
1/18/2022									
1/20/2022	83.7	67.3					38.1		
1/21/2022			104						
1/24/2022					33.2	15.6			299
1/25/2022				43.2					
1/26/2022									
1/28/2022								19.5	
9/7/2022									
9/8/2022								17.2	
9/13/2022					34.4		34.2		
9/14/2022						16.4			
9/15/2022	82.2		70.1	36.7					
9/16/2022		66.2							
9/19/2022									376
9/20/2022									
1/31/2023									
2/1/2023				33.6			32.7	14.1	
2/2/2023					32.2				
2/3/2023									287
2/6/2023		56.7				17.5			
2/7/2023	84.8		110						
9/6/2023									
9/7/2023								16.3	
9/8/2023				32.7	34.3				
9/11/2023	88.4	61.2	114						
9/12/2023									
9/13/2023						19.8	33.6		279

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016				
8/31/2016				
9/1/2016				
9/2/2016				
9/6/2016				
9/7/2016				
12/6/2016				
12/7/2016				
12/8/2016				
3/28/2017	8.31	5.14		
3/29/2017				
3/30/2017			68.1	103
3/31/2017				
5/11/2017				102
5/12/2017	8.04		71.1	
5/15/2017		6.5		
6/15/2017		5.38	65.9	96.2
6/16/2017	7.66			
7/11/2017	7.71	5.96		98.4
7/12/2017			70	
7/13/2017				
8/8/2017		5.2		
10/24/2017	6.86	4.93		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				
7/11/2018				55
7/12/2018			72	
11/6/2018	5.7	5.5		54.5
11/7/2018				
11/8/2018			73.5	
3/12/2019	5.5	5.1		52.2
3/13/2019				
3/14/2019			73.2	
10/15/2019	5.1	5.1		
10/16/2019				
10/17/2019				47.2
10/18/2019			67.7	
3/2/2020	5.8	5.3		
3/3/2020				48.4
3/4/2020			69.8	
3/9/2020				
9/22/2020	5.4	5		
9/23/2020				44.4
9/24/2020			73.7	
3/1/2021	5.9	4.1		
3/2/2021				44

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (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				
9/13/2021				
1/18/2022	6.6	6.1		
1/20/2022			82.7	44.6
1/21/2022				
1/24/2022				
1/25/2022				
1/26/2022				
1/28/2022				
9/7/2022	6.4	5.9		
9/8/2022				
9/13/2022				
9/14/2022				
9/15/2022				
9/16/2022				
9/19/2022				
9/20/2022			90	37.8
1/31/2023	5.7	6.2		
2/1/2023				
2/2/2023				
2/3/2023				
2/6/2023			86.4	35.3
2/7/2023				
9/6/2023	7	6.6		
9/7/2023				
9/8/2023				
9/11/2023			95.4	
9/12/2023				
9/13/2023				33.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-48	DGWC-19	DGWC-47
8/30/2016	9.7								
8/31/2016		11	3.1	11	8.6				
9/1/2016						13	18	41	12
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	11	3.1	10	8				
12/7/2016						20 (O)		41	
12/8/2016							17		12
3/28/2017					9.5				
3/29/2017	9.9	12	3.8	11		13		42	
3/30/2017							16		
3/31/2017									9.1
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7				9				
7/12/2017		11	2.9	11		12		41	
7/13/2017							15		5.7
8/8/2017									
10/24/2017	9.9	12		11					
10/25/2017			3.5		9.4	13		41	
10/26/2017							14		6.6
11/15/2017				12					
2/27/2018	9.5	12.7	3.4	10.8	9.7	11.7			
2/28/2018								36.4	
3/1/2018									10.7
3/2/2018							12.8		
3/8/2018									
7/11/2018			3.2			11.3		38.2	
7/12/2018							11.7		9.5
11/6/2018	10.5	15.2		12.3	10.2				
11/7/2018			3.1			11.8	11.4	38.8	8.6
11/8/2018									
3/12/2019	10.7	14.5		12.1	10.6	12.1			
3/13/2019			3.4					40.1	
3/14/2019							10.2		6.6
10/15/2019		15.6		9.4		11.6			
10/16/2019	10.4		3.5		11.6			33.2	
10/17/2019									7
10/18/2019							9.6		
3/2/2020		15			10.5	8.9			
3/3/2020	9.6		4.1	8.4				30.9	
3/4/2020							9.1		4.4
3/9/2020									
9/22/2020		16	3.2		10.5	10.8		27.6	
9/23/2020	9.1						8		3.3
9/24/2020				5.9					
3/1/2021									
3/2/2021	8.6	14.4	3.5		9.8			27	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-48	DGWC-19	DGWC-47
3/3/2021						10.3	14.2		2.9
3/4/2021				7.2					
3/12/2021									
9/8/2021									
9/9/2021		13.6	3.3			8.5		25.4	
9/10/2021				8.2	9.9		10.9		2.4
9/13/2021	8.2								
1/18/2022									
1/20/2022									
1/21/2022									3.1
1/24/2022					9.9		11.3		
1/25/2022	9.3	14.1	3.7			8.1		23.7	
1/26/2022				9					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			3.5				8.9		3.3
9/14/2022					11.2			18.7	
9/15/2022	8.3	12.1		8.2		8.2			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023			4.5						
2/2/2023				9.9					
2/3/2023							8.2		2.6
2/6/2023		12.1				6.8		17.9	
2/7/2023	8.7				10				
9/6/2023									
9/7/2023									
9/8/2023		11.2	3.5					15.8	
9/11/2023				10.1		6.5			
9/12/2023	9.5								2.4
9/13/2023					9.5		6.5		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-4	DGWA-70A (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	15	30	25						
9/6/2016				19	16				
9/7/2016						17	33		
12/6/2016									
12/7/2016	16			20	14				
12/8/2016		26	24			19	32		
3/28/2017								29	3.8
3/29/2017	17	30							
3/30/2017			24	21	16	20			
3/31/2017							33		
5/11/2017									
5/12/2017								29	
5/15/2017									2.2
6/15/2017								28	2
6/16/2017									
7/11/2017								28	2.1
7/12/2017	18		23	21	14	18			
7/13/2017		29					33		
8/8/2017									2.2
10/24/2017								28	2.4
10/25/2017	20	29	23	21		19	32		
10/26/2017									
11/15/2017					16			27	
2/27/2018								24.6	2.5
2/28/2018	18.6	23.4	19.9	20.1	2.7	17	29		
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	20.4		20.9	21.4		19.5	29.3		
7/12/2018		26.1							
11/6/2018								24.8	2.3
11/7/2018	21.5	25.8	20.5	22.4	16.7	21.4	28.6		
11/8/2018									
3/12/2019								24.2	2.5
3/13/2019	24.8		21.3		12.4	19.9			
3/14/2019		26.3		24			24.8		
10/15/2019								20.9	2.2
10/16/2019					17.4				
10/17/2019	24.9		20.1	22			25.8		
10/18/2019		23.4				22			
3/2/2020								18.7	1.9
3/3/2020		21.8	19.7	22.7	9.4				
3/4/2020	27.8					19.6	23.6		
3/9/2020									
9/22/2020	25.8						22.1	17	1.9
9/23/2020				22.4	12.6				
9/24/2020		21.5	20			22.7			
3/1/2021								15	1.9
3/2/2021	28			22.8	13.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWC-4	DGWA-70A (bg)
3/3/2021		20.6	19.7			20.9	20.8		
3/4/2021									
3/12/2021									
9/8/2021									
9/9/2021			20.2	21.9	12.9				1.9
9/10/2021	26.2	17.3						13.9	
9/13/2021						18.2	17.1		
1/18/2022									1.9
1/20/2022		18.1	18.6				18.2		
1/21/2022	27								
1/24/2022				21.5		19.2		12.5	
1/25/2022					14.3				
1/26/2022									
1/28/2022									
9/7/2022									2.1
9/8/2022									
9/13/2022				21.9			18.7		
9/14/2022						19			
9/15/2022	26.2		17.6		13.7				
9/16/2022		18							
9/19/2022								11.2	
9/20/2022									
1/31/2023									2.2
2/1/2023					12.2		19.3		
2/2/2023				22.1					
2/3/2023								11	
2/6/2023		16.9				18.8			
2/7/2023	27.9		18.6						
9/6/2023									2.2
9/7/2023									
9/8/2023				20	11.7				
9/11/2023	26.9	16.8	17.8						
9/12/2023									
9/13/2023						18.2	18.4	9.4	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (bg)	DGWC-2	DGWC-23
8/30/2016				
8/31/2016				
9/1/2016				
9/2/2016				
9/6/2016				
9/7/2016				
12/6/2016				
12/7/2016				
12/8/2016				
3/28/2017	3.6	3.7		
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				
6/15/2017		2.6	4.8	16
6/16/2017	3.4			
7/11/2017	3.1		4.6	
7/12/2017		2.3		16
7/13/2017				
8/8/2017				
10/24/2017	3.2	2.7	4.4	
10/25/2017				
10/26/2017				17
11/15/2017	3.1	2.2		
2/27/2018	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	2.6		3.7	
11/7/2018		2.3		
11/8/2018				14.6
3/12/2019	3.3		3.1	
3/13/2019		3.6		
3/14/2019				15.2
10/15/2019	3.3			
10/16/2019		2		
10/17/2019			2.8	
10/18/2019				14.4
3/2/2020	3			
3/3/2020			2.3	
3/4/2020				13.9
3/9/2020		1.8		
9/22/2020	5.2	1.6		
9/23/2020			2.1	
9/24/2020				13.7
3/1/2021	3.9			
3/2/2021			2.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-53 (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	2.1	12.3
9/10/2021				
9/13/2021				
1/18/2022	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	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
1/31/2023	7.3			
2/1/2023		1.9		
2/2/2023				
2/3/2023				
2/6/2023			2.1	12.4
2/7/2023				
9/6/2023	7.8			
9/7/2023		1.7		
9/8/2023				
9/11/2023				12
9/12/2023				
9/13/2023			1.9	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-5	DGWC-14	DGWC-10	DGWC-12	DGWC-19	DGWC-48	DGWC-47
8/30/2016	0.39								
8/31/2016		0.06 (J)	1	0.06 (J)	1				
9/1/2016						0.02 (J)	0.75	1.5	1.8
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	0.06 (J)	0.76	0.1 (J)	1.3				
12/7/2016						0.16 (J)	0.37		
12/8/2016								1.6	1.1
3/28/2017			1.2						
3/29/2017	0.51	0.04 (J)		0.02 (J)	1.5	0.1 (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	0.2 (J)		0.7						
7/12/2017		0.03 (J)		<0.1	1.7	0.2 (J)	0.34		
7/13/2017								1.1	0.84
8/8/2017									
10/24/2017	0.82	<0.1			2.1				
10/25/2017			1.4	<0.1		0.6	0.9		
10/26/2017								1.7	1
11/15/2017					1.4				
2/27/2018	0.59	<0.1	1.3	<0.1	2.3	0.34			
2/28/2018							1.2		
3/1/2018									1.4
3/2/2018								1.1	
3/8/2018									
7/11/2018				<0.1		<0.1	0.37		
7/12/2018								0.65	0.96
11/6/2018	0.35	<0.1	<0.3 (J)		2				
11/7/2018				<0.1		<0.3 (J)	<0.3 (J)	0.63	0.74
11/8/2018									
3/12/2019	0.35	0.052 (J)	0.31		1.7	0.065 (J)			
3/13/2019				0.042 (J)			0.22 (J)		
3/14/2019								1.4	1.6
8/27/2019		<0.1	0.32	<0.1	1.4	<0.1			
8/28/2019	0.098 (J)						0.2		
8/29/2019								0.78	0.52
10/15/2019		<0.1			1.4	<0.1			
10/16/2019	0.14 (J)		0.32	0.052 (J)			0.23 (J)		
10/17/2019									0.46
10/18/2019								0.46	
3/2/2020		0.064 (J)	0.33			0.071 (J)			
3/3/2020	<0.1			<0.1	1.5		0.056 (J)		
3/4/2020								0.7	0.74
3/9/2020									
8/11/2020		<0.1		<0.1	1.4	<0.1	0.2		
8/12/2020	0.056 (J)		0.13						0.22

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-5	DGWC-14	DGWC-10	DGWC-12	DGWC-19	DGWC-48	DGWC-47
8/13/2020								0.47	
8/14/2020									
9/22/2020		<0.1	0.12	<0.1		<0.1	0.084 (J)		
9/23/2020	<0.1							0.32	0.11
9/24/2020					0.97				
3/1/2021									
3/2/2021	0.059 (J)	<0.1	0.15	<0.1			0.19		
3/3/2021						0.085 (J)		0.67	0.71
3/4/2021					1.8				
3/12/2021									
9/8/2021									
9/9/2021		<0.1		<0.1		0.099 (J)	0.18		
9/10/2021			0.16		2.2			0.47	0.22
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)	0.16		
1/26/2022					1.8				
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				0.059 (J)				0.43	0.47
9/14/2022			0.27				0.18		
9/15/2022	0.077 (J)	0.064 (J)			0.84	0.078 (J)			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023				0.067 (J)					
2/2/2023					1.1				
2/3/2023								0.48	0.45
2/6/2023		<0.1				0.1	0.22		
2/7/2023	0.13		0.22						
9/6/2023									
9/7/2023									
9/8/2023		<0.1		<0.1			0.17		
9/11/2023					1.3	0.13			
9/12/2023	0.091 (J)								0.51
9/13/2023			0.14					0.51	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4	DGWA-71 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	0.07 (J)	0.3	0.66						
9/6/2016				0.11 (J)	0.17 (J)				
9/7/2016						0.02 (J)	0.32		
12/6/2016									
12/7/2016			0.66	0.11 (J)	0.3				
12/8/2016	0.14 (J)	0.12 (J)				0.06 (J)	0.31		
3/28/2017								0.17 (J)	0.06 (J)
3/29/2017		0.11 (J)	0.34						
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	<0.1
5/15/2017									
6/15/2017								0.02 (J)	
6/16/2017									0.008 (J)
7/11/2017								0.02 (J)	0.007 (J)
7/12/2017	0.04 (J)		0.41	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	<0.1
10/25/2017	0.34	0.25 (J)	0.68	0.26 (J)		<0.1	0.49		
10/26/2017									
11/15/2017					0.44			0.79	<0.1
2/27/2018								<0.1	<0.1
2/28/2018	<0.1	<0.1	0.76	<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	0.15 (J)		
7/12/2018		0.13 (J)							
11/6/2018								<0.1	<0.1
11/7/2018	<0.1	<0.1	<0.3 (J)	<0.1	<0.3 (J)	<0.1	<0.3 (J)		
11/8/2018									
3/12/2019								0.082 (J)	<0.1
3/13/2019	0.043 (J)		0.45		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	<0.1
8/28/2019				<0.1	0.091 (J)	<0.1			
8/29/2019	0.079 (J)	0.054 (J)	0.78						
10/15/2019								<0.1	<0.1
10/16/2019					0.14 (J)				
10/17/2019	<0.1		0.26 (J)	0.079 (J)		<0.1			
10/18/2019		<0.1					0.086 (J)		
3/2/2020								<0.1	<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
8/12/2020					0.051 (J)			<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-4	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			0.15			<0.1		<0.1	<0.1
9/23/2020				<0.1	0.058 (J)				
9/24/2020	<0.1	<0.1					0.056 (J)		
3/1/2021								<0.1	<0.1
3/2/2021			1.4	<0.1	0.084 (J)				
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	<0.1			<0.1	0.083 (J)				
9/10/2021		<0.1	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	<0.1	
1/25/2022					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							0.1		
9/15/2022	0.087 (J)		0.69		0.095 (J)				
9/16/2022		0.068 (J)							
9/19/2022								0.061 (J)	
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								0.096 (J)	
2/6/2023		0.057 (J)					0.096 (J)		
2/7/2023	0.059 (J)		1.1						
9/6/2023									<0.1
9/7/2023									
9/8/2023				<0.1	0.055 (J)				
9/11/2023	0.054 (J)	0.054 (J)	1.5						
9/12/2023									
9/13/2023						<0.1	0.1	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	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	0.12 (J)			1.2 (O)
3/29/2017				
3/30/2017		0.06 (J)	0.12 (J)	
3/31/2017				
5/11/2017	0.07 (J)	0.06 (J)		
5/12/2017			0.36	
5/15/2017				0.005 (J)
6/15/2017	0.19 (J)	0.07 (J)	0.21 (J)	0.02 (J)
6/16/2017				
7/11/2017		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)	0.43		<0.1
10/25/2017				
10/26/2017			0.66	
11/15/2017	0.05 (J)			
2/27/2018		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
11/7/2018	<0.1			
11/8/2018			<0.3 (J)	
3/12/2019		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
8/28/2019	0.42			
8/29/2019			0.095 (J)	
10/15/2019				<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
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				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-53 (bg)	DGWC-2	DGWC-23	DGWA-70A (bg)
8/13/2020	0.062 (J)		0.1	
8/14/2020				
9/22/2020	0.099 (J)			<0.1
9/23/2020		<0.1		
9/24/2020			0.075 (J)	
3/1/2021				<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)	0.053 (J)	0.084 (J)	<0.1
9/10/2021				
9/13/2021				
1/18/2022				<0.1
1/20/2022		<0.1	<0.1	
1/21/2022				
1/24/2022				
1/25/2022				
1/26/2022				
1/28/2022	0.08 (J)			
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				
9/20/2022		0.076 (J)	0.11	
1/31/2023				0.053 (J)
2/1/2023	0.1			
2/2/2023				
2/3/2023				
2/6/2023		0.072 (J)	0.076 (J)	
2/7/2023				
9/6/2023				<0.1
9/7/2023	0.082 (J)			
9/8/2023				
9/11/2023			0.1	
9/12/2023				
9/13/2023		0.083 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-14	DGWC-11	DGWC-5	DGWC-48	DGWC-47	DGWC-19	DGWC-21
8/30/2016	5.33								
8/31/2016		4.58	5.68	5.83	4.31				
9/1/2016				5.67		4.7	5.11	4.64	
9/2/2016									5.7
9/6/2016									
9/7/2016									
12/6/2016	5.39	4.9	5.63	5.91	4.43				
12/7/2016								4.63	
12/8/2016						4.58	5.71		5.64
3/28/2017					4.44				
3/29/2017	5.23	4.62	5.68	5.74				4.7	
3/30/2017						4.19			5.79
3/31/2017							4.58		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	5.33				4.46				
7/12/2017		4.81	5.66	5.82				4.76	5.71
7/13/2017						4.3	4.95		
8/8/2017									
10/24/2017	5.05	4.8		5.79					
10/25/2017			6.18		4.54			4.66	5.68
10/26/2017						4.39	4.41		
11/15/2017		4.9							
2/27/2018	5.08	5.55	5.63	5.94	4.87				
2/28/2018								4.63	5.71
3/1/2018							3.93		
3/2/2018						4.14			
3/8/2018									
7/10/2018	5.11	5.27		5.62	4.77				
7/11/2018			5.61					4.71	
7/12/2018						4.36	4.33		
11/6/2018	5.13	5.3		5.69	4.89				
11/7/2018			5.58			4.23	4.48	4.69	5.61
11/8/2018									
3/12/2019	5.07	5.26		5.7	4.42				
3/13/2019			5.61					4.76	5.62
3/14/2019						4.12	3.88		
8/27/2019		5.14	5.58	5.55	4.83				
8/28/2019	5.11							4.85	
8/29/2019						4.28	4.35		5.61
9/17/2019									
10/15/2019		4.96		5.6					
10/16/2019	5.33		5.66		4.78			4.87	
10/17/2019							4.6		5.57
10/18/2019						4.22			
3/2/2020				5.62	4.8				
3/3/2020	5.12	4.77	5.73					4.89	5.65
3/4/2020						4.27	3.86		
3/9/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-14	DGWC-11	DGWC-5	DGWC-48	DGWC-47	DGWC-19	DGWC-21
8/11/2020		4.92	5.73	5.68				4.9	
8/12/2020	5.36				4.84		4.43		
8/13/2020						4.26			
8/14/2020									5.66
9/22/2020			5.7	5.54	4.83			4.91	
9/23/2020	5.21					4.64	4.4		
9/24/2020		4.89							5.64
3/1/2021									
3/2/2021	6.6		5.69	5.59	5			4.84	
3/3/2021						4.14	3.98		5.63
3/4/2021		5.27							
3/12/2021									
9/8/2021									
9/9/2021			5.7	5.59				4.82	5.73
9/10/2021		5.05			4.89	4.3	4.1		
9/13/2021	5.05								
1/18/2022									
1/20/2022									5.73
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		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					5.69
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023			5.87						
2/2/2023		4.67							
2/3/2023						4.2	3.88		
2/6/2023				5.45				4.82	
2/7/2023	5.23				4.89				5.7
9/6/2023									
9/8/2023			5.67	5.44				4.78	
9/11/2023		4.56							5.61
9/12/2023	5.02						3.99		
9/13/2023					4.74	4.06			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	4.7	5.74							
9/6/2016			5.69	5.79					
9/7/2016					5.35	5.05			
12/6/2016									
12/7/2016			5.96	5.94			5.65		
12/8/2016		6.03			5.41	5.12			
3/28/2017								5.94	6.29
3/29/2017	4.7	5.77					5.61		
3/30/2017			5.94	5.8		5.08			
3/31/2017					5.36				
5/11/2017									6.6
5/12/2017								5.46	
5/15/2017									
6/15/2017									6.41
6/16/2017								5.81	
7/11/2017								5.74	
7/12/2017	4.67		5.84	5.81		5	5.81		5.91
7/13/2017		5.71			5.27				
8/8/2017									
10/24/2017								5.86	5.51
10/25/2017	4.71	5.77		5.9	5.38	5.73	6.07		
10/26/2017									
11/15/2017			5.87					5.77	6.5
2/27/2018							5.73	5.66	
2/28/2018	4.51	5.77	5.99	5.8	5.37	5.22			
3/1/2018									
3/2/2018									
3/8/2018									6.18
7/10/2018			5.92					5.63	
7/11/2018	4.68			5.87	5.19	5.07			
7/12/2018		5.62							6.33
11/6/2018								5.79	
11/7/2018	4.64	5.71	5.87	5.9	5.18	5.09	5.85		6.22
11/8/2018									
3/12/2019							5.98	5.74	
3/13/2019	4.65		5.79			5.07			6
3/14/2019		5.67		5.77	5.1				
8/27/2019						4.96	5.55	5.87	
8/28/2019			5.71	5.88	5.3				6.04
8/29/2019	4.64	5.66							
9/17/2019							5.6		
10/15/2019							5.89	5.88	
10/16/2019			5.69						6.69
10/17/2019	4.64			5.76	5.2				
10/18/2019		5.61				5.08			
3/2/2020							6.13	5.77	
3/3/2020		5.74	5.71	5.79		5.07			
3/4/2020	4.22				5.18	5.07			
3/9/2020									6.41

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWC-12	DGWA-71 (bg)	DGWA-53 (bg)
8/11/2020							5.69	5.96	
8/12/2020			5.68						
8/13/2020	4.36			6.58	5.34				6.17
8/14/2020		5.76				5.01			
9/22/2020	4.66				5.76		6	6.06	6.43
9/23/2020			5.72	5.85					
9/24/2020		5.69				5.1			
3/1/2021								5.8	
3/2/2021	4.45		5.68	5.81					
3/3/2021		5.71			5.3	5.23	6.13		
3/4/2021									
3/12/2021									6.38
9/8/2021								5.76	
9/9/2021			5.69	5.83			6.07		6.41
9/10/2021	4.67	5.65							
9/13/2021					5.15	5.06			
1/18/2022								5.51	
1/20/2022		5.72			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									6.35
9/7/2022								5.65	
9/8/2022									6.32
9/13/2022				5.82	5.04				
9/14/2022						5.08			
9/15/2022	4.58		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				6.42
2/2/2023				5.86					
2/3/2023									
2/6/2023		5.84				5.13	5.9		
2/7/2023	4.33								
9/6/2023								5.82	6.51
9/8/2023			5.59	5.81					
9/11/2023	4.06	5.57					6.1		
9/12/2023					5.04				
9/13/2023						5.04			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-4	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			
3/29/2017				
3/30/2017		5.75	6.03	
3/31/2017				
5/11/2017		5.67		
5/12/2017	5.87		5.97	
5/15/2017				5.72
6/15/2017	6.03	5.75	6	5.74
6/16/2017				
7/11/2017	6.04	5.87		5.62
7/12/2017			5.97	
7/13/2017				
8/8/2017				5.6
10/24/2017	5.99	5.82		5.71
10/25/2017				
10/26/2017			5.9	
11/15/2017	5.92			
2/27/2018	6.03	5.85		5.5
2/28/2018				
3/1/2018			6.19	
3/2/2018				
3/8/2018				
7/10/2018	5.96			5.44
7/11/2018		5.85		
7/12/2018			5.97	
11/6/2018	5.97	5.88		5.71
11/7/2018				
11/8/2018			5.96	
3/12/2019	5.85	5.94		5.52
3/13/2019				
3/14/2019			5.99	
8/27/2019	5.84	5.94		5.53
8/28/2019				
8/29/2019			5.96	
9/17/2019				
10/15/2019	5.98			5.61
10/16/2019				
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				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-4	DGWC-2	DGWC-23	DGWA-70A (bg)
8/11/2020		6.04		5.86
8/12/2020	5.93			
8/13/2020			6	
8/14/2020				
9/22/2020	5.88			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				
9/8/2021				
9/9/2021		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				
9/7/2022				5.6
9/8/2022				
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				
2/2/2023				
2/3/2023	5.77			
2/6/2023		5.17	5.97	
2/7/2023				
9/6/2023				5.5
9/8/2023				
9/11/2023			5.99	
9/12/2023				
9/13/2023	5.64	6.06		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-47	DGWC-12	DGWC-48	DGWC-19
8/30/2016	450								
8/31/2016		400	400	200	44				
9/1/2016						470	390	540	240
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	480	460	190	190	45				
12/7/2016							350		250
12/8/2016						400		540	
3/28/2017		380							
3/29/2017	660		360	200	81 (O)		150		250
3/30/2017								550	
3/31/2017						350			
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	440	440							
7/12/2017			390	210	44		350		250
7/13/2017						270		500	
8/8/2017									
10/24/2017	430		410	210					
10/25/2017		510			42		400		270
10/26/2017						290		510	
11/15/2017			390						
2/27/2018	340	453	335	220	41		356		
2/28/2018									244
3/1/2018						245			
3/2/2018								456	
3/8/2018									
7/11/2018					40.6		344		249
7/12/2018						240		409	
11/6/2018	307	556	356	302					
11/7/2018					41.3	143	298	432	266
11/8/2018									
3/12/2019	295	484	297	275			284		
3/13/2019					41.2				299
3/14/2019						238		450	
10/15/2019			263	273			270		
10/16/2019	235	493			42.1				323
10/17/2019						179			
10/18/2019								336	
3/2/2020		455		264			181		
3/3/2020	195		213		45.5				292
3/4/2020						176		368	
3/9/2020									
9/22/2020		423		267	40.2		183		310
9/23/2020	178					111		313	
9/24/2020			204						
3/1/2021									
3/2/2021	152	412		250	42.6				324

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-5	DGWC-10	DGWC-11	DGWC-14	DGWC-47	DGWC-12	DGWC-48	DGWC-19
3/3/2021						143	203	312	
3/4/2021			240						
3/12/2021									
9/8/2021									
9/9/2021				247	42.3		126		315
9/10/2021		449	271			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			250	44.4		111		288
1/26/2022			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		229	287			191		
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023					45.9				
2/2/2023			235						
2/3/2023						138		301	
2/6/2023				273			142		379
2/7/2023	118	577							
9/6/2023									
9/7/2023									
9/8/2023				256	43.1				369
9/11/2023			258				132		
9/12/2023	134					119			
9/13/2023		576						268	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	300	140	580						
9/6/2016				180	170				
9/7/2016						370	230		
12/6/2016									
12/7/2016			650	180	160				
12/8/2016	280	260				350	240		
3/28/2017								17	680
3/29/2017		290	640						
3/30/2017	270			210	180		260		
3/31/2017						380			
5/11/2017									
5/12/2017								17	680
5/15/2017									
6/15/2017									730
6/16/2017								11	
7/11/2017								11	740
7/12/2017	290		630	170	170		230		
7/13/2017		300				370			
8/8/2017									
10/24/2017								9.6	930
10/25/2017	290	290	610	180		370	240		
10/26/2017									
11/15/2017					180			7.8	820
2/27/2018								7.4	811
2/28/2018	267	278	584	168	43.5	350	203		
3/1/2018									
3/2/2018									
3/8/2018									
7/11/2018	277		501	154		366	234		
7/12/2018		197							
11/6/2018								7.3	902
11/7/2018	286	320	554	168	162	439	248		
11/8/2018									
3/12/2019								7	987
3/13/2019	312		539		179		268		
3/14/2019		297		195		404			
10/15/2019								7.4	888
10/16/2019					167				
10/17/2019	255		426	146		321			
10/18/2019		254					222		
3/2/2020								8.5	840
3/3/2020	269	242		148	157				
3/4/2020			434			329	222		
3/9/2020									
9/22/2020			408			320		6.5	800
9/23/2020				146	134				
9/24/2020	269	262					259		
3/1/2021								5.2	840
3/2/2021			458	148	131				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWC-4
3/3/2021	264	252				329	237		
3/4/2021									
3/12/2021									
9/8/2021								6.1	
9/9/2021	238			139	127				
9/10/2021		234	399						823
9/13/2021						285	222		
1/18/2022								6.3	
1/20/2022	223	221				281			
1/21/2022			406						
1/24/2022				127			225		816
1/25/2022					116				
1/26/2022									
1/28/2022									
9/7/2022								7	
9/8/2022									
9/13/2022				145		326			
9/14/2022							268		
9/15/2022	268		462		133				
9/16/2022		265							
9/19/2022									925
9/20/2022									
1/31/2023								6.8	
2/1/2023					97.5	313			
2/2/2023				137					
2/3/2023									949
2/6/2023		235					262		
2/7/2023	285		517						
9/6/2023								7.2	
9/7/2023									
9/8/2023				126	98.7				
9/11/2023	268	236	552						
9/12/2023									
9/13/2023						294	255		852

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-53 (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	2.7		
3/29/2017				
3/30/2017			360	220
3/31/2017				
5/11/2017	21		340	
5/12/2017				220
5/15/2017		1		
6/15/2017	16	0.86 (J)	300	200
6/16/2017				
7/11/2017		1.4	330	
7/12/2017	10			220
7/13/2017				
8/8/2017		1.5		
10/24/2017	15	1.4	260	
10/25/2017				
10/26/2017				220
11/15/2017	3.8			
2/27/2018		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		<1 (J)	190	
11/7/2018	12.8			
11/8/2018				292
3/12/2019		0.35 (J)	159	
3/13/2019	23.7			
3/14/2019				266
10/15/2019		0.16 (J)		
10/16/2019	15.1			
10/17/2019			134	
10/18/2019				203
3/2/2020		<1		
3/3/2020			118	
3/4/2020				204
3/9/2020	9.5			
9/22/2020	13.5	<1		
9/23/2020			122	
9/24/2020				215
3/1/2021		<1		
3/2/2021			112	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-53 (bg)	DGWA-70A (bg)	DGWC-2	DGWC-23
3/3/2021				221
3/4/2021				
3/12/2021	8.8			
9/8/2021				
9/9/2021	11.9	<1	110	217
9/10/2021				
9/13/2021				
1/18/2022		<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		<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
1/31/2023		<1		
2/1/2023	13.3			
2/2/2023				
2/3/2023				
2/6/2023			96.4	262
2/7/2023				
9/6/2023		<1		
9/7/2023	15.4			
9/8/2023				
9/11/2023				275
9/12/2023				
9/13/2023			95.5	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-11	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-48	DGWC-47
8/30/2016	693								
8/31/2016		525	307	106	524				
9/1/2016						568	396	845	704
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	595	358	138	690				
12/7/2016						559	400		
12/8/2016								777	587
3/28/2017					545				
3/29/2017	654	525	300	102		550	390		
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				612				
7/12/2017		598	382	118		594	360		
7/13/2017								789	441
8/8/2017									
10/24/2017	468	353	342						
10/25/2017				88	650	571	423		
10/26/2017								753	444
11/15/2017		582							
2/27/2018	520	542	393	99	698	582			
2/28/2018							440		
3/1/2018									435
3/2/2018								704	
3/8/2018									
7/11/2018				119		593	457		
7/12/2018								705	372
11/6/2018	456	512	412		809				
11/7/2018				113		504	461	678	348
11/8/2018									
3/12/2019	438	436	433		711	465			
3/13/2019				280			113		
3/14/2019								625	378
10/15/2019		447	461			472			
10/16/2019	374			104	702		500		
10/17/2019									327
10/18/2019								593	
3/2/2020			458		759	338			
3/3/2020	369	382		123			526		
3/4/2020								630	334
3/9/2020									
9/22/2020			481	105	716	338	513		
9/23/2020	333							575	229
9/24/2020		283							
3/1/2021									
3/2/2021	291		456	105	730		513		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-8	DGWC-10	DGWC-11	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-48	DGWC-47
3/3/2021						325		521	228
3/4/2021		430							
3/12/2021									
9/8/2021									
9/9/2021			433	99		275	480		
9/10/2021		474			792			532	274
9/13/2021	306								
1/18/2022									
1/20/2022									
1/21/2022									289
1/24/2022					810			500	
1/25/2022	281		465	120		258	694		
1/26/2022		425							
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				80				527	277
9/14/2022					850		572		
9/15/2022	234	280	414			377			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023				116					
2/2/2023		390							
2/3/2023								527	259
2/6/2023			481			251	600		
2/7/2023	223				939				
9/6/2023									
9/7/2023									
9/8/2023			451	156			634		
9/11/2023		436				302			
9/12/2023	251								218
9/13/2023					1020			473	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)	DGWC-4
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	459	502	1100						
9/6/2016				296	304				
9/7/2016						353	611		
12/6/2016									
12/7/2016			930	270	287				
12/8/2016	491	464				408	535		
3/28/2017								202	1160
3/29/2017		462	923						
3/30/2017	436			287	312	338			
3/31/2017							661		
5/11/2017								241	
5/12/2017									1230
5/15/2017									
6/15/2017								251	1290
6/16/2017									
7/11/2017									1160
7/12/2017	505		956	312	490 (O)	417		218	
7/13/2017		492					641		
8/8/2017									
10/24/2017								671 (O)	229
10/25/2017	474	477	854		290	343	626		
10/26/2017									
11/15/2017				325				241	1330
2/27/2018									1380
2/28/2018	480	476	888	84	313	364	616		
3/1/2018									
3/2/2018									
3/8/2018								213	
7/11/2018	485		826		320	393	638		
7/12/2018		486						198	
11/6/2018									1480
11/7/2018	516	511	834	314	325	408	626	200	
11/8/2018									
3/12/2019									1490
3/13/2019	486		639	656		802		201	
3/14/2019		491			340		630		
10/15/2019									1520
10/16/2019				296				126	
10/17/2019	498		751		319		612		
10/18/2019		480				403			
3/2/2020									1540
3/3/2020	490	452		263	323				
3/4/2020			761			414	721		
3/9/2020								171	
9/22/2020			724				547	142	1400
9/23/2020				278	317				
9/24/2020	494	455				411			
3/1/2021									1140
3/2/2021			742	256	272				

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWC-21	DGWC-22	DGWC-20	DGWC-13	DGWC-15	DGWC-17	DGWC-42	DGWA-53 (bg)	DGWC-4
3/3/2021	459	442				384	531		
3/4/2021									
3/12/2021								124	
9/8/2021									
9/9/2021	396			246	292			131	
9/10/2021		468	678						1520
9/13/2021						424	508		
1/18/2022									
1/20/2022	451	434					504		
1/21/2022			702						
1/24/2022					294	426			1520
1/25/2022				256					
1/26/2022									
1/28/2022								155	
9/7/2022									
9/8/2022								129	
9/13/2022					289		540		
9/14/2022						434			
9/15/2022	440		618	216					
9/16/2022		462							
9/19/2022									1670
9/20/2022									
1/31/2023									
2/1/2023				216			541	116	
2/2/2023					288				
2/3/2023									1630
2/6/2023		427				403			
2/7/2023	498		848						
9/6/2023									
9/7/2023								123	
9/8/2023				217	274				
9/11/2023	519	460	960						
9/12/2023									
9/13/2023						480	545		1520

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016				
8/31/2016				
9/1/2016				
9/2/2016				
9/6/2016				
9/7/2016				
12/6/2016				
12/7/2016				
12/8/2016				
3/28/2017	90	39		
3/29/2017				
3/30/2017			380	580
3/31/2017				
5/11/2017				573
5/12/2017	92		438	
5/15/2017		88		
6/15/2017		65	458	626
6/16/2017	100			
7/11/2017	59	25		542
7/12/2017			461	
7/13/2017				
8/8/2017		53		
10/24/2017	117	49		523
10/25/2017				
10/26/2017			446	
11/15/2017	90			
2/27/2018	79	43		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	85	65		334
11/7/2018				
11/8/2018			450	
3/12/2019	74	43		297
3/13/2019				
3/14/2019			453	
10/15/2019	89	70		
10/16/2019				
10/17/2019				302
10/18/2019			448	
3/2/2020	67	52		
3/3/2020				277
3/4/2020			408	
3/9/2020				
9/22/2020	74	46		
9/23/2020				267
9/24/2020			456	
3/1/2021	62	25		
3/2/2021				241

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 2/14/2024 9:17 AM View: AP 234 Appendix III

Plant McDonough Data: McDonough AP

	DGWA-71 (bg)	DGWA-70A (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				
9/13/2021				
1/18/2022	76	54		
1/20/2022			453	238
1/21/2022				
1/24/2022				
1/25/2022				
1/26/2022				
1/28/2022				
9/7/2022	82	34		
9/8/2022				
9/13/2022				
9/14/2022				
9/15/2022				
9/16/2022				
9/19/2022				
9/20/2022			511	230
1/31/2023	87	163		
2/1/2023				
2/2/2023				
2/3/2023				
2/6/2023			532	226
2/7/2023				
9/6/2023	80	46		
9/7/2023				
9/8/2023				
9/11/2023			582	
9/12/2023				
9/13/2023				212

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:24 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.003815	-70	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-10	-0.5759	-110	-63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.09451	112	63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.276	-124	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.05186	-72	-63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.03666	81	68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.1622	-91	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.1753	-146	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.6233	-117	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.221	85	63	Yes	17	0	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.05724	-114	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.3198	-121	-63	Yes	17	0	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-3.489	-105	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	3.104	76	63	Yes	17	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.413	134	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	2.023	93	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	3.033	92	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	13.75	78	63	Yes	17	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-6.589	-131	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	7.884	96	63	Yes	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.1444	-106	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0.6112	69	68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.845	-131	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	2.004	124	68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-0.9359	-119	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.053	-126	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7935	-125	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.234	-147	-68	Yes	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.693	-125	-68	Yes	18	0	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.1218	-108	-81	Yes	20	0	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.143	-106	-81	Yes	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.03073	83	81	Yes	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.03796	-90	-74	Yes	19	0	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.03328	-82	-81	Yes	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.1547	-93	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-0.7648	-99	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-39.62	-98	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-10.7	-78	-63	Yes	17	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-8.111	-113	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	18.84	104	68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-36.13	-145	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-20	-34.76	-81	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-11.69	-86	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-36.55	-118	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-44.14	-128	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-59.54	-125	-63	Yes	17	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-19.82	-110	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-28.26	-75	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	20.89	82	63	Yes	17	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-53.95	-104	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	10.64	71	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	33.89	108	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-46.69	-75	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6	-70	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	66.91	92	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-52.69	-132	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	48.86	112	63	Yes	17	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:24 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**DGWA-53 (bg)**	**-0.003815**	**-70**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWA-70A (bg)	0	12	68	No	18	50	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	0.0006045	25	63	No	17	23.53	n/a	0.01	NP
Boron (mg/L)	**DGWC-10**	**-0.5759**	**-110**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-11**	**0.09451**	**112**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-12**	**-1.276**	**-124**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-13**	**-0.05186**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-15	0	-5	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-17**	**0.03666**	**81**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-19**	**-0.1622**	**-91**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-2**	**-0.1753**	**-146**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-20**	**-0.6233**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-21	0.1999	41	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.02707	12	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.05045	26	68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-4**	**0.221**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-42	0	-3	-68	No	18	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-48**	**-0.05724**	**-114**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-5	-0.2186	-39	-63	No	17	0	n/a	0.01	NP
Boron (mg/L)	**DGWC-8**	**-0.3198**	**-121**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWA-53 (bg)**	**-3.489**	**-105**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWA-70A (bg)	0.04315	15	68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.2966	-37	-63	No	17	5.882	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-2.19	-50	-63	No	17	0	n/a	0.01	NP
Calcium (mg/L)	**DGWC-11**	**3.104**	**76**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-19**	**6.413**	**134**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-20	-2.43	-9	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**DGWC-21**	**2.023**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-22	-0.1226	-6	-68	No	18	0	n/a	0.01	NP
Calcium (mg/L)	**DGWC-23**	**3.033**	**92**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-4**	**13.75**	**78**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-48**	**-6.589**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-5**	**7.884**	**96**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWA-53 (bg)**	**-0.1444**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWA-70A (bg)	-0.03406	-39	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**DGWA-71 (bg)**	**0.6112**	**69**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-10	-0.3698	-50	-68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	0.1938	27	63	No	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.371	-36	-63	No	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.2322	51	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	0.04704	10	68	No	18	0	n/a	0.01	NP
Chloride (mg/L)	**DGWC-19**	**-3.845**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-20**	**2.004**	**124**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-21**	**-0.9359**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-22**	**-2.053**	**-126**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-23**	**-0.7935**	**-125**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-4**	**-3.234**	**-147**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-42**	**-2.693**	**-125**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-5	0.2165	53	63	No	17	0	n/a	0.01	NP
Chloride (mg/L)	DGWC-8	-0.1733	-55	-63	No	17	0	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	-0.002688	-18	-87	No	21	9.524	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0	45	74	No	19	63.16	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	13	81	No	20	75	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	-0.02603	-18	-81	No	20	0	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.07002	52	81	No	20	5	n/a	0.01	NP
Fluoride (mg/L)	**DGWC-47**	**-0.1218**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**DGWC-48**	**-0.143**	**-106**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWA-53 (bg)	0.02783	39	87	No	21	0	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02199	-46	-81	No	20	0	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.004559	10	87	No	21	0	n/a	0.01	NP
pH, Field (SU)	DGWC-10	-0.007748	-14	-87	No	21	0	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	1	87	No	21	0	n/a	0.01	NP
pH, Field (SU)	**DGWC-19**	**0.03073**	**83**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-20**	**-0.03796**	**-90**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-42**	**-0.03328**	**-82**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-47**	**-0.1547**	**-93**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.03517	-68	-81	No	20	0	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.05723	76	81	No	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McDonough Data: McDonough AP Printed 2/14/2024, 9:24 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
pH, Field (SU)	DGWC-8	-0.007763	-16	-81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-0.3271	-19	-74	No	19	0	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	0	-25	-68	No	18	50	n/a	0.01	NP
Sulfate (mg/L)	**DGWA-71 (bg)**	**-0.7648**	**-99**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-10	-24.62	-68	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	10.22	58	63	No	17	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-12**	**-39.62**	**-98**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-13**	**-10.7**	**-78**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-15**	**-8.111**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-17	1.585	21	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-19**	**18.84**	**104**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-2**	**-36.13**	**-145**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-20**	**-34.76**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-21	-4.246	-62	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	-6.334	-36	-68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	2.55	37	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	23.78	61	68	No	18	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-42**	**-11.69**	**-86**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-47**	**-36.55**	**-118**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-48**	**-44.14**	**-128**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-5	11.49	36	63	No	17	0	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-8**	**-59.54**	**-125**	**-63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-19.82**	**-110**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	0	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-1.946	-37	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**-28.26**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**20.89**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-53.95**	**-104**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-2.912	-28	-63	No	17	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**10.64**	**71**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**33.89**	**108**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**-46.69**	**-75**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	1.49	11	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**-6**	**-70**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	9.626	54	68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**66.91**	**92**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-17.14	-56	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-52.69**	**-132**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**48.86**	**112**	**63**	**Yes**	**17**	**0**	**n/a**	**0.01**	**NP**

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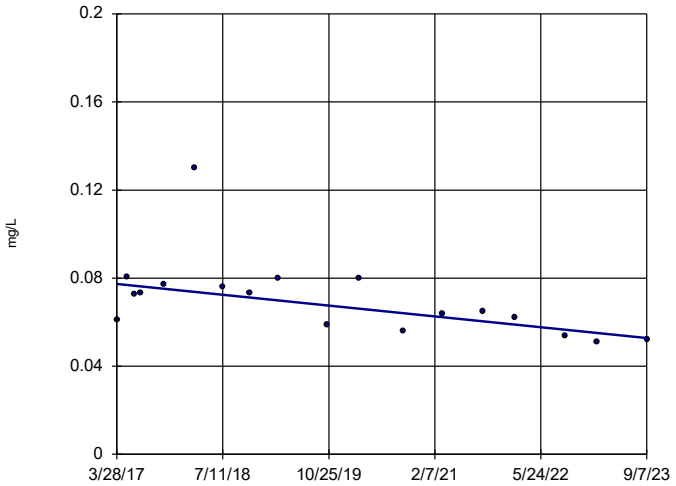
Sen's Slope Estimator

DGWA-53 (bg)



n = 18

Slope = -0.003815 units per year.

Mann-Kendall statistic = -70 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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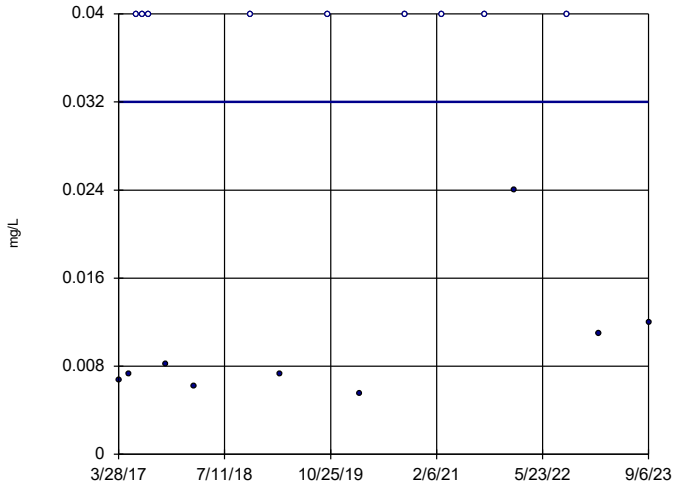
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 12 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

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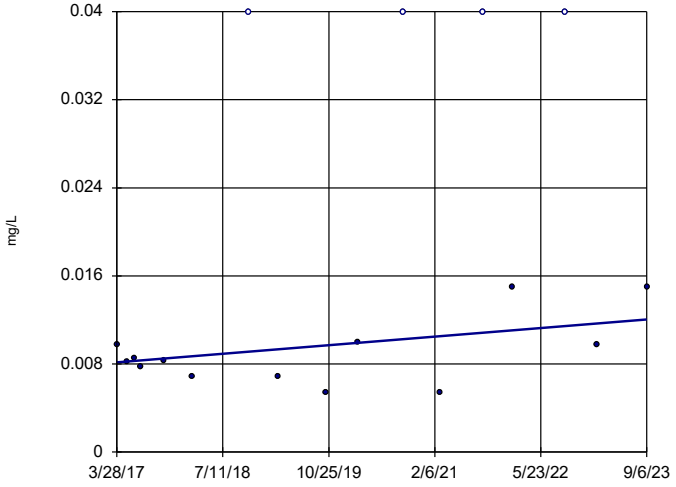
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 17

Slope = 0.0006045 units per year.

Mann-Kendall statistic = 25 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

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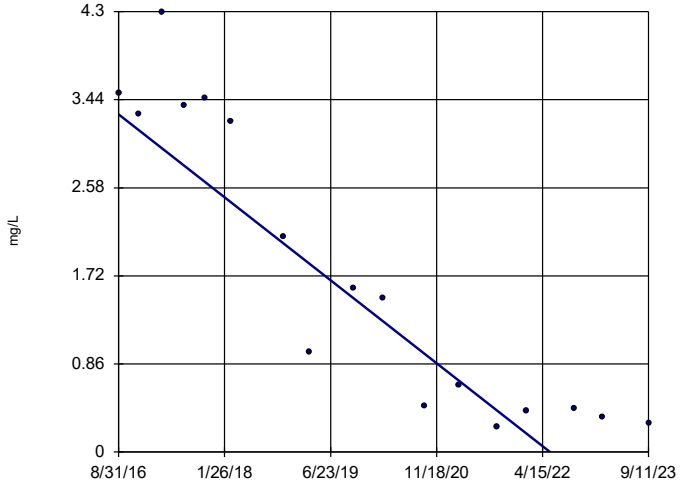
Sen's Slope Estimator

DGWC-10



n = 17

Slope = -0.5759 units per year.

Mann-Kendall statistic = -110 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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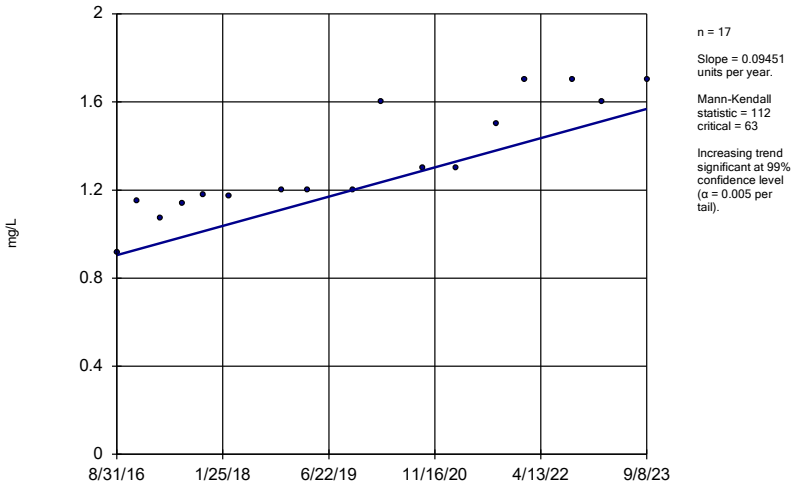
Sen's Slope Estimator

DGWC-11



n = 17

Slope = 0.09451 units per year.

Mann-Kendall statistic = 112
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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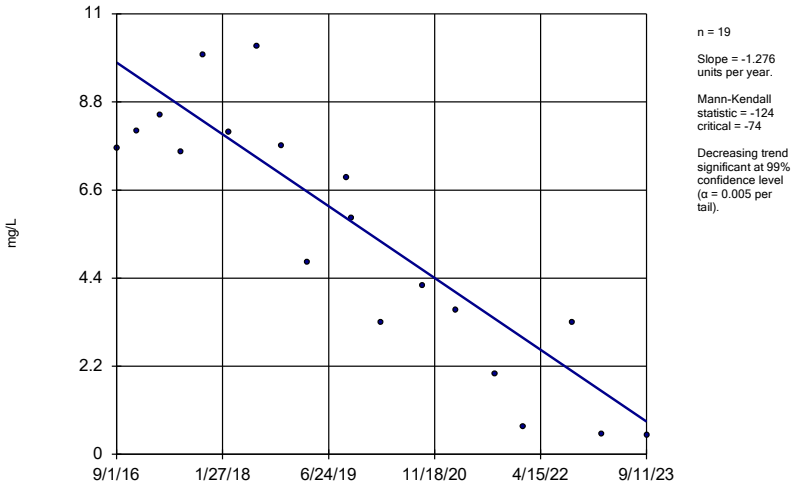
Sen's Slope Estimator

DGWC-12



n = 19

Slope = -1.276 units per year.

Mann-Kendall statistic = -124
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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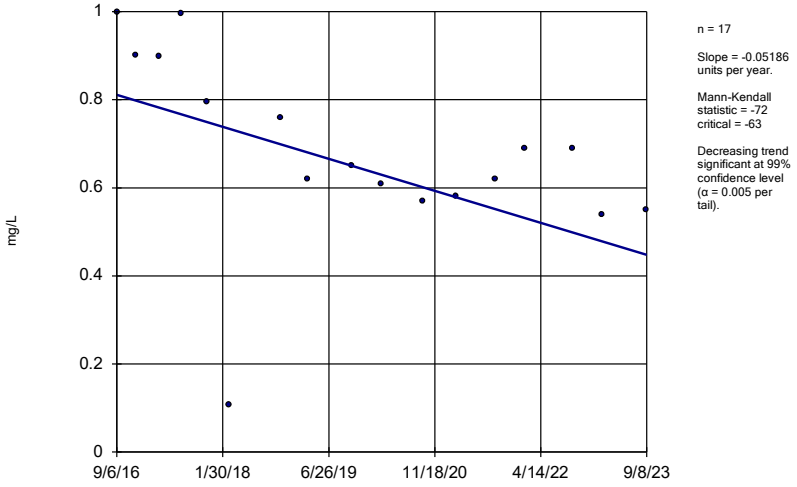
Sen's Slope Estimator

DGWC-13



n = 17

Slope = -0.05186 units per year.

Mann-Kendall statistic = -72
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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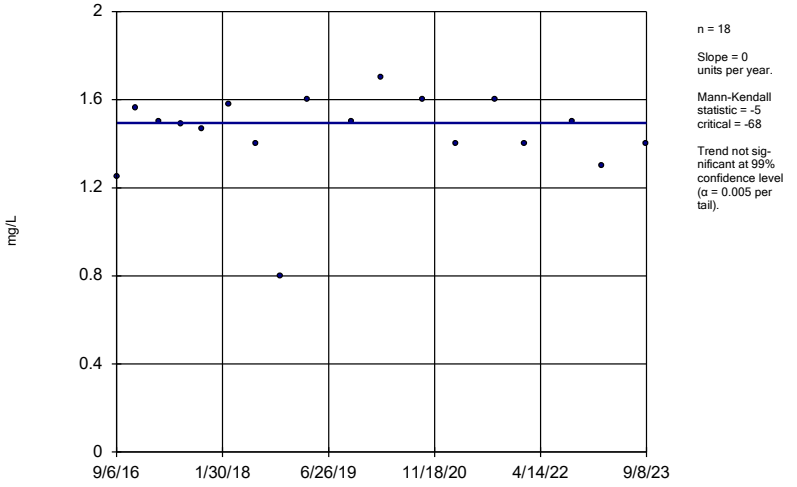
Sen's Slope Estimator

DGWC-15



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

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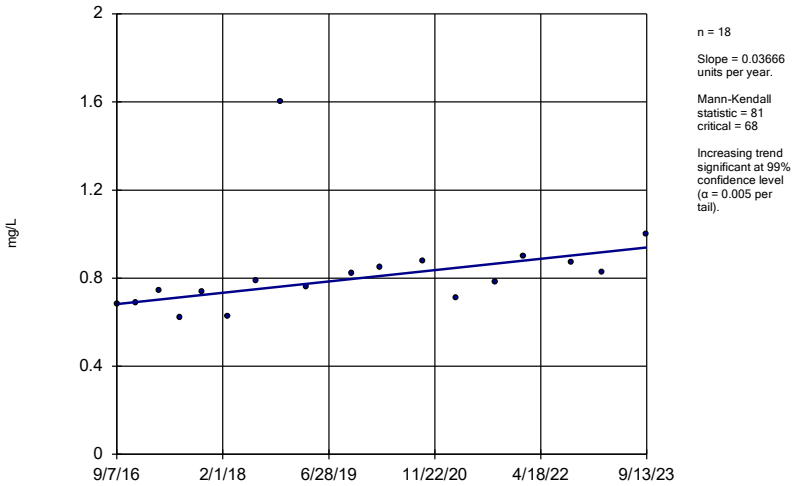
Sen's Slope Estimator

DGWC-17



n = 18

Slope = 0.03666 units per year.

Mann-Kendall statistic = 81
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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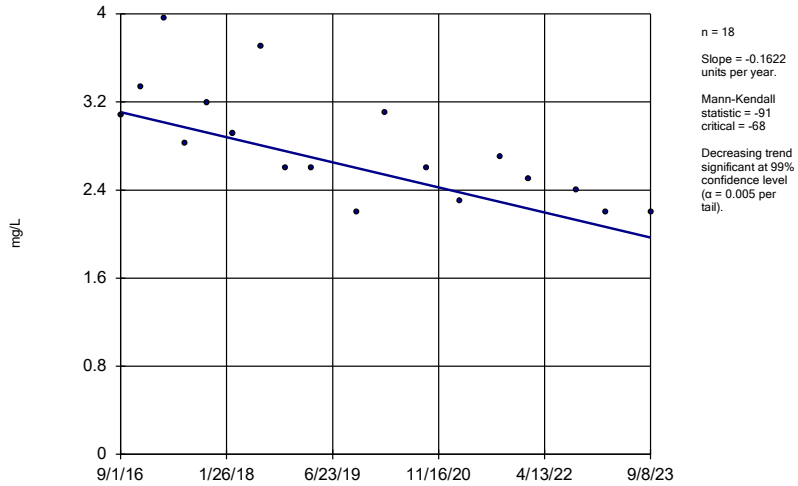
Sen's Slope Estimator

DGWC-19



n = 18

Slope = -0.1622 units per year.

Mann-Kendall statistic = -91
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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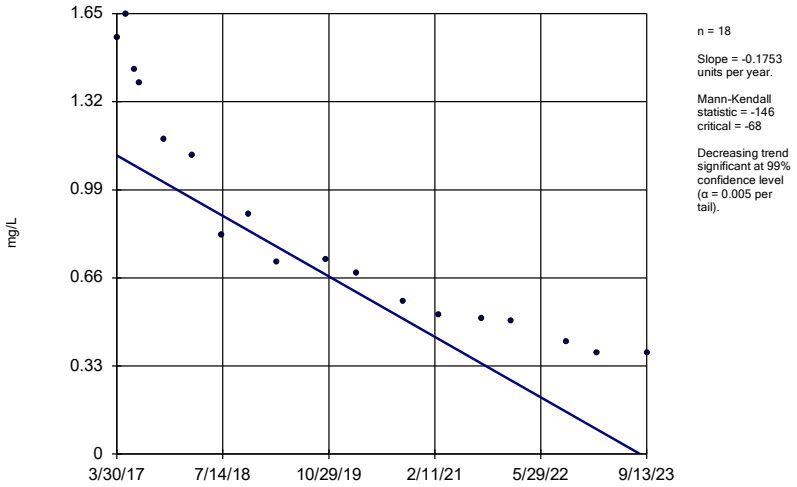
Sen's Slope Estimator

DGWC-2



n = 18

Slope = -0.1753 units per year.

Mann-Kendall statistic = -146
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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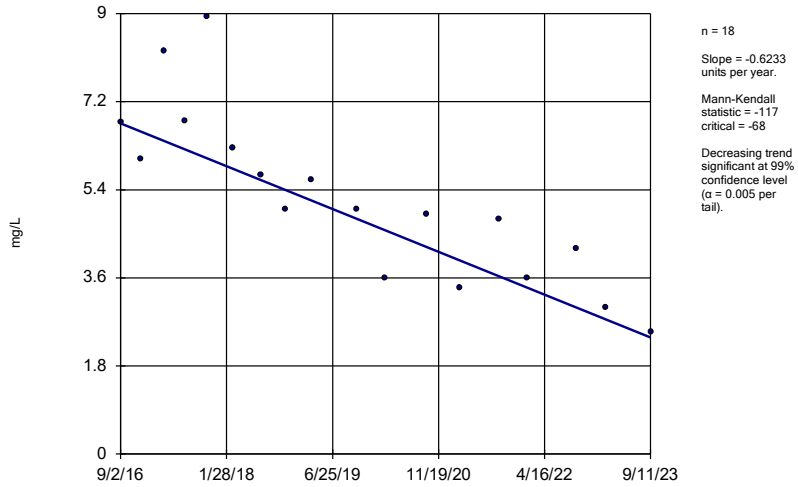
Sen's Slope Estimator

DGWC-20



n = 18

Slope = -0.6233 units per year.

Mann-Kendall statistic = -117
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

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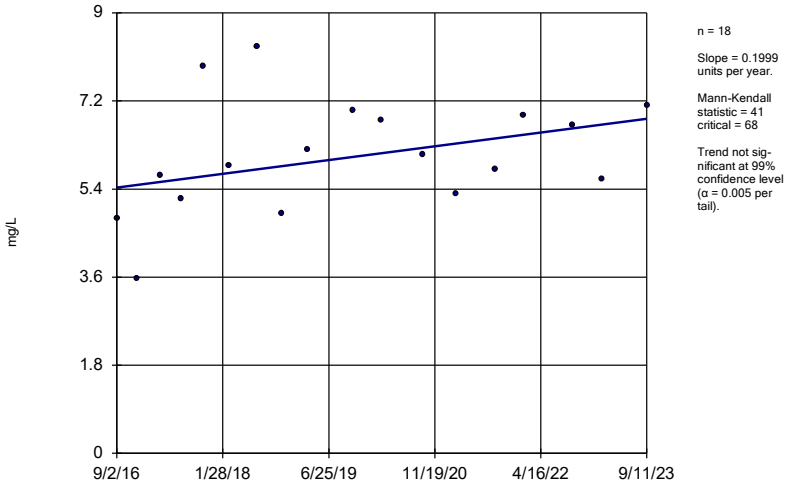
Sen's Slope Estimator

DGWC-21



n = 18

Slope = 0.1999 units per year.

Mann-Kendall statistic = 41
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

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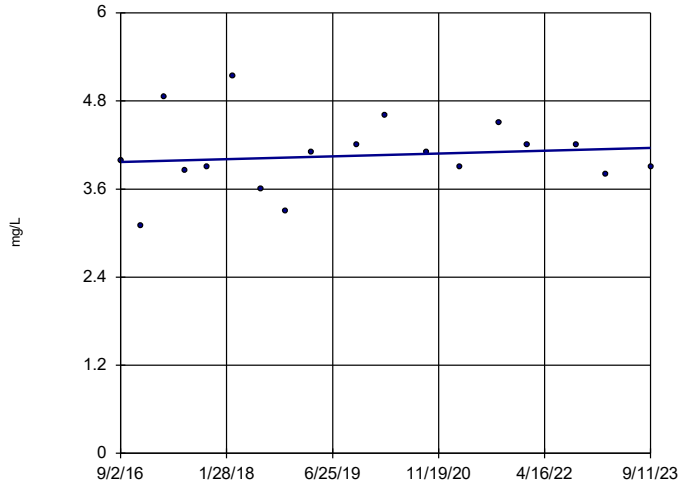
Sen's Slope Estimator

DGWC-22



n = 18

Slope = 0.02707 units per year.

Mann-Kendall statistic = 12
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

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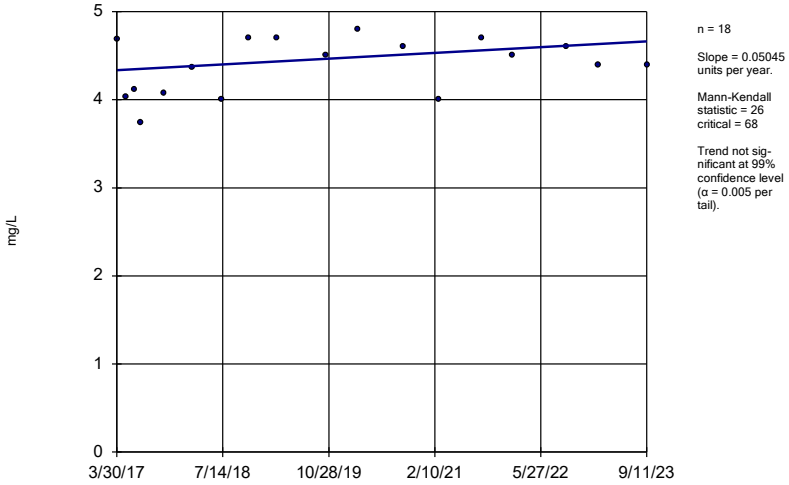
Sen's Slope Estimator

DGWC-23



n = 18

Slope = 0.05045 units per year.

Mann-Kendall statistic = 26
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

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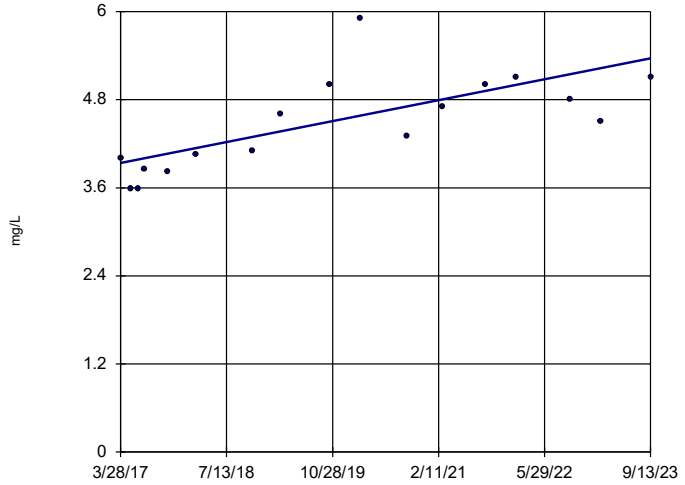
Sen's Slope Estimator

DGWC-4



n = 17

Slope = 0.221 units per year.

Mann-Kendall statistic = 85
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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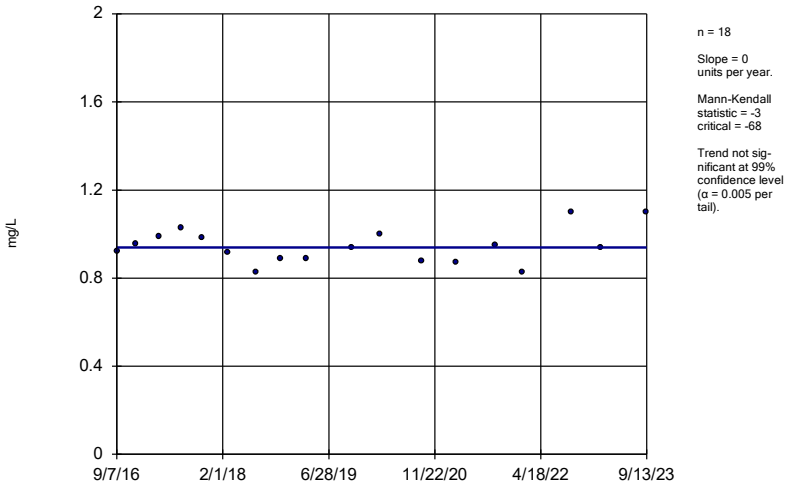
Sen's Slope Estimator

DGWC-42



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

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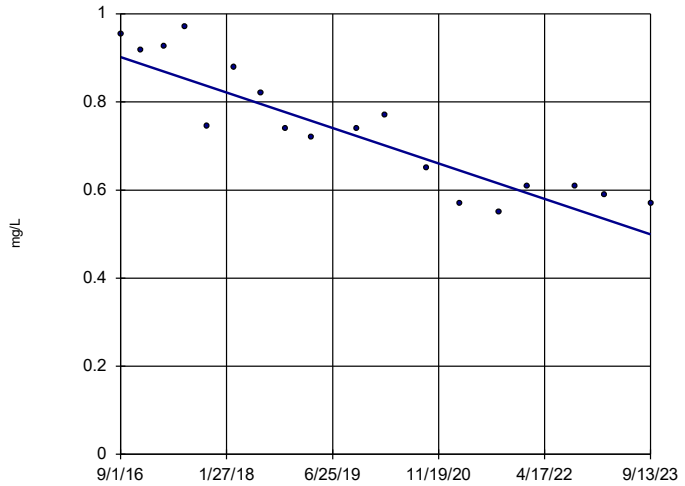
Sen's Slope Estimator

DGWC-48



n = 18

Slope = -0.05724 units per year.

Mann-Kendall statistic = -114
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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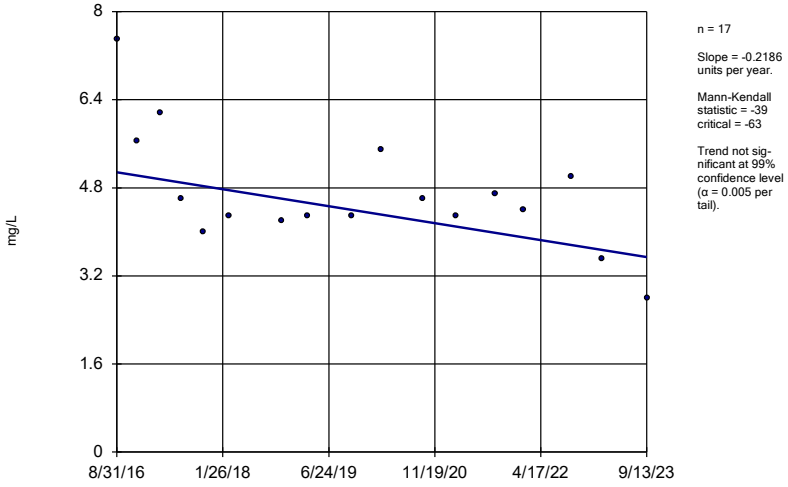
Sen's Slope Estimator

DGWC-5



n = 17

Slope = -0.2186 units per year.

Mann-Kendall statistic = -39
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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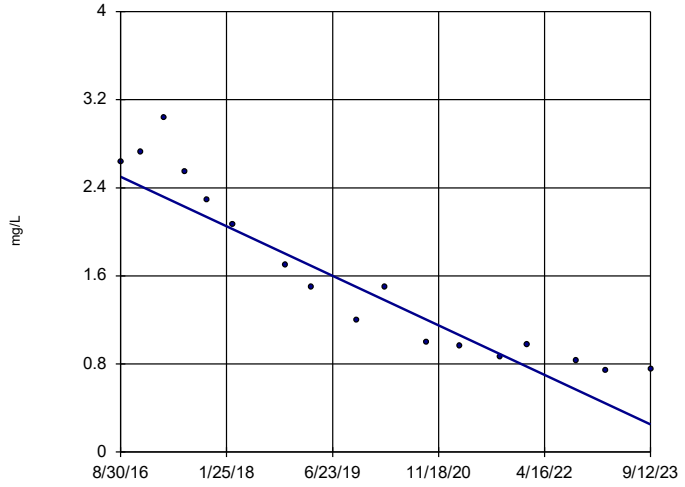
Sen's Slope Estimator

DGWC-8



n = 17

Slope = -0.3198 units per year.

Mann-Kendall statistic = -121
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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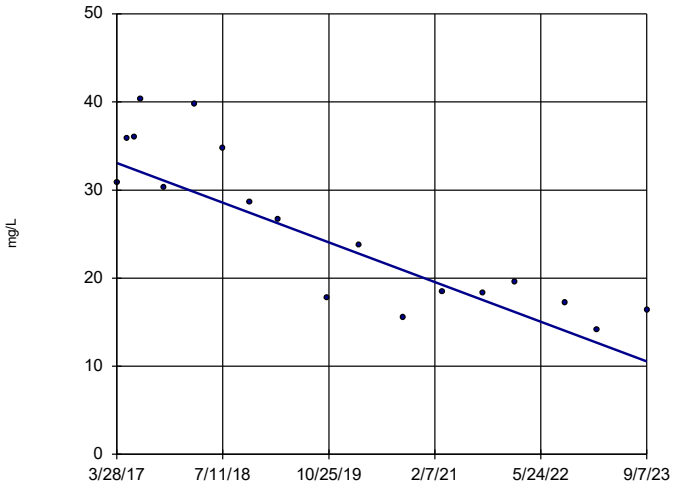
Sen's Slope Estimator

DGWA-53 (bg)



n = 18

Slope = -3.489 units per year.

Mann-Kendall statistic = -105 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

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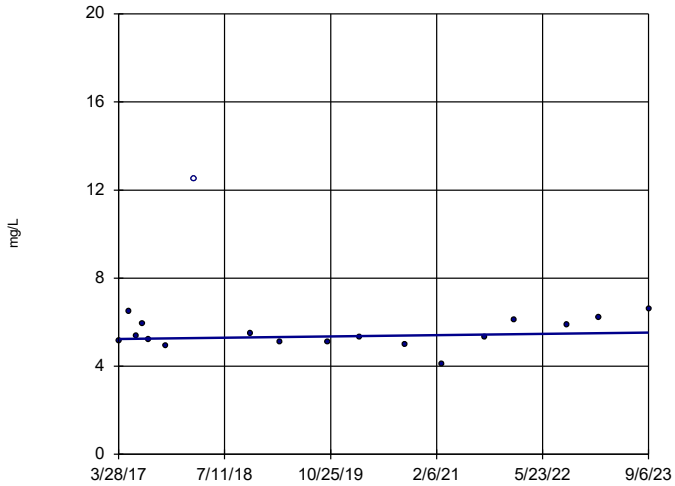
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = 0.04315 units per year.

Mann-Kendall statistic = 15 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

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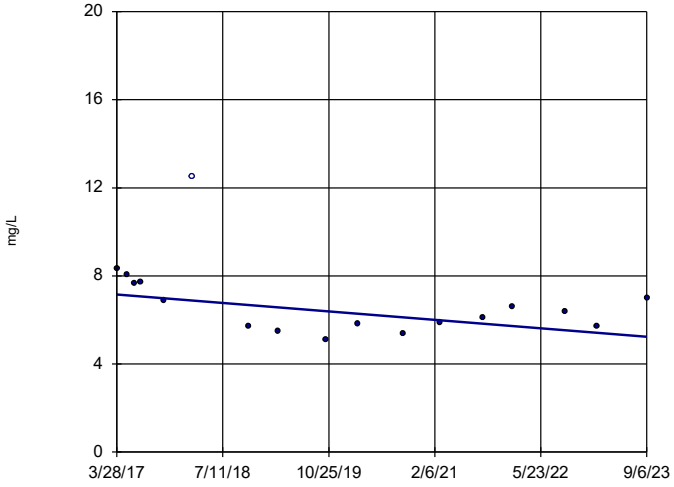
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 17

Slope = -0.2966 units per year.

Mann-Kendall statistic = -37 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

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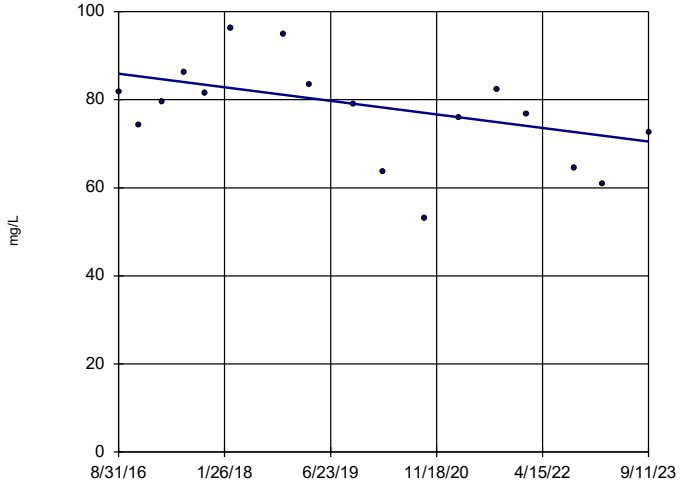
Sen's Slope Estimator

DGWC-10



n = 17

Slope = -2.19 units per year.

Mann-Kendall statistic = -50 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

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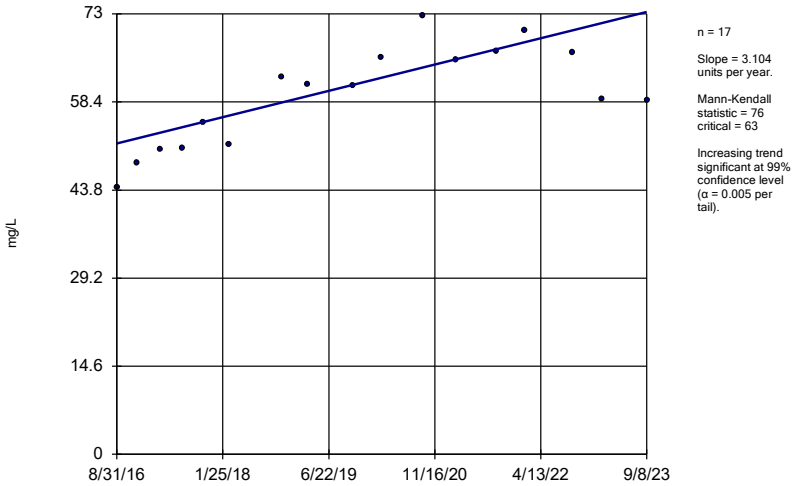
Sen's Slope Estimator

DGWC-11



n = 17

Slope = 3.104 units per year.

Mann-Kendall statistic = 76
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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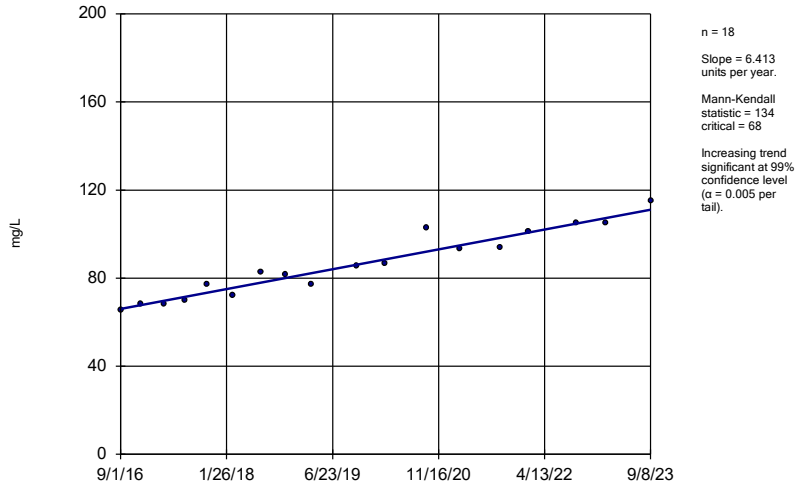
Sen's Slope Estimator

DGWC-19



n = 18

Slope = 6.413 units per year.

Mann-Kendall statistic = 134
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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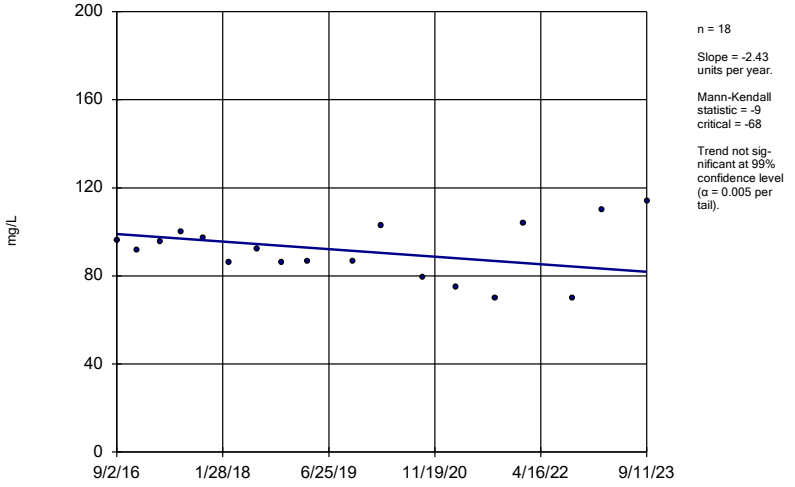
Sen's Slope Estimator

DGWC-20



n = 18

Slope = -2.43 units per year.

Mann-Kendall statistic = -9
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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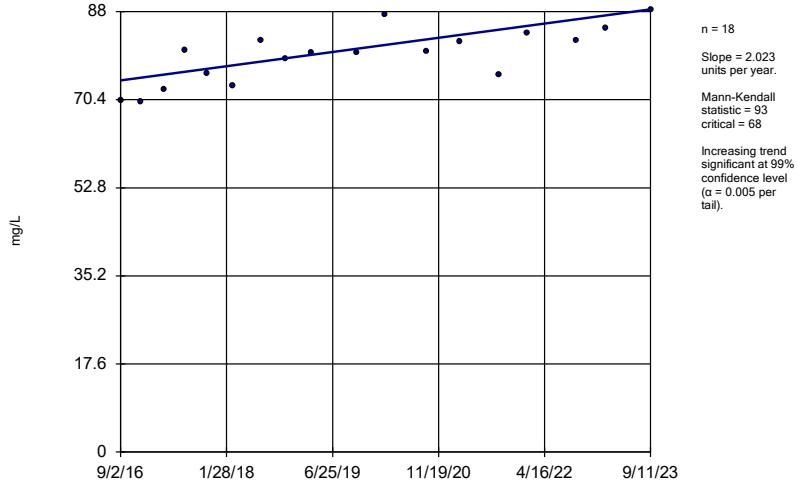
Sen's Slope Estimator

DGWC-21



n = 18

Slope = 2.023 units per year.

Mann-Kendall statistic = 93
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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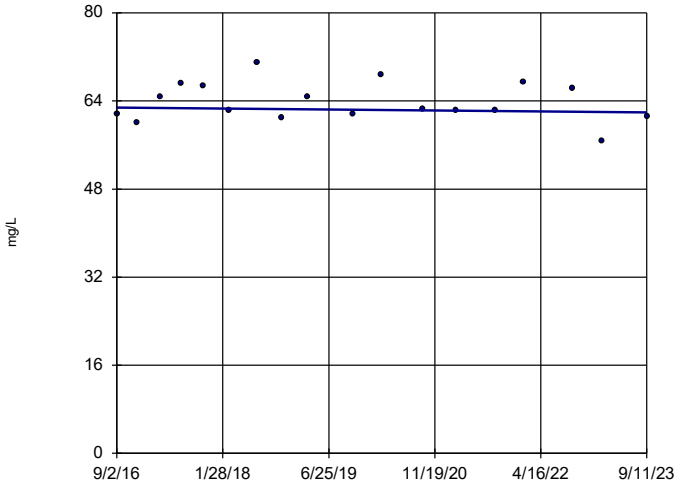
Sen's Slope Estimator

DGWC-22



n = 18

Slope = -0.1226 units per year.

Mann-Kendall statistic = -6
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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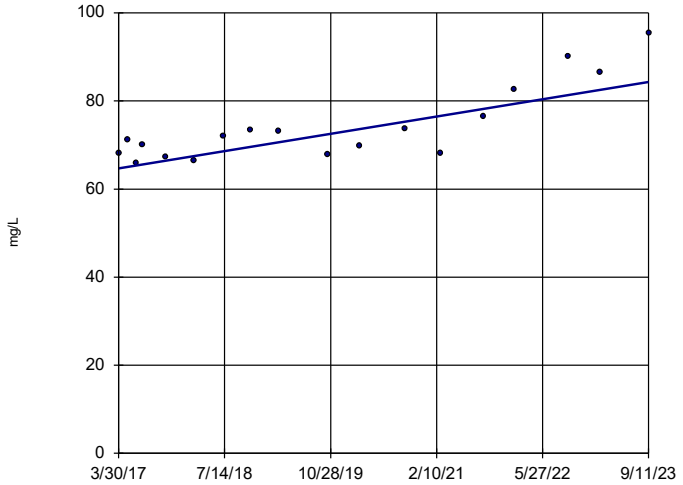
Sen's Slope Estimator

DGWC-23



n = 18

Slope = 3.033 units per year.

Mann-Kendall statistic = 92
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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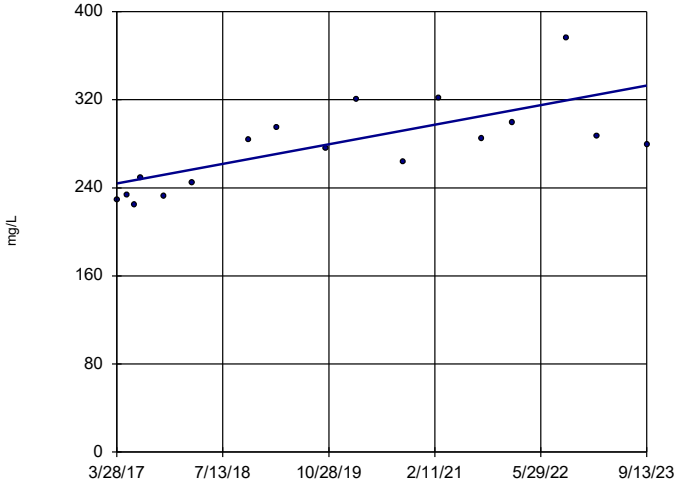
Sen's Slope Estimator

DGWC-4



n = 17

Slope = 13.75 units per year.

Mann-Kendall statistic = 78
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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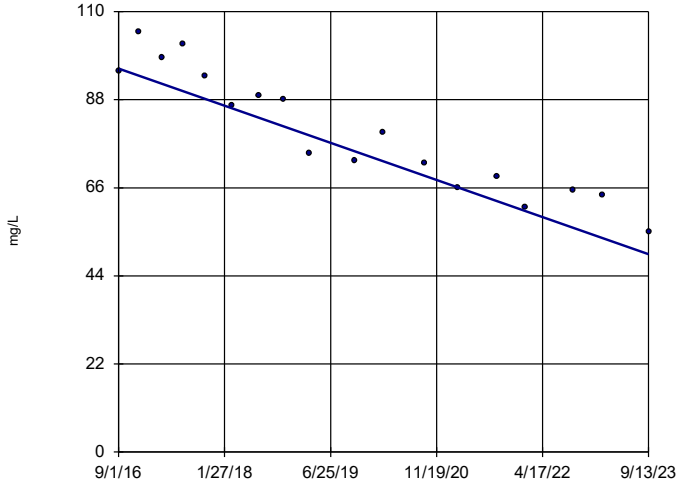
Sen's Slope Estimator

DGWC-48



n = 18

Slope = -6.589 units per year.

Mann-Kendall statistic = -131
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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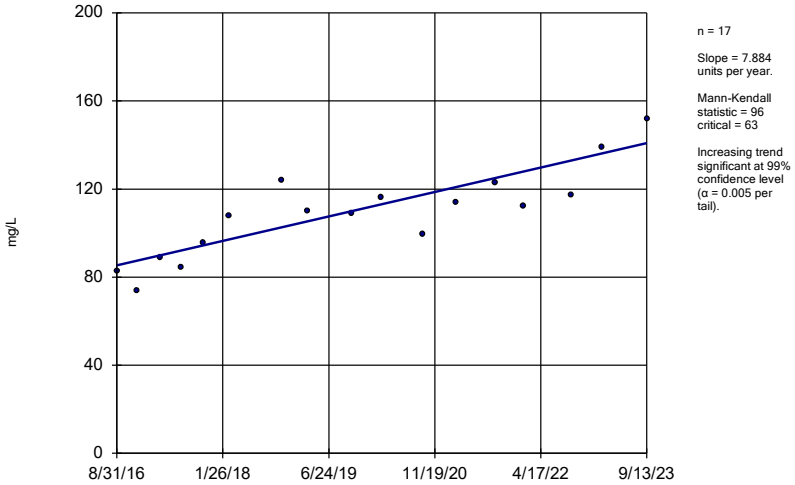
Sen's Slope Estimator

DGWC-5



n = 17

Slope = 7.884 units per year.

Mann-Kendall statistic = 96 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

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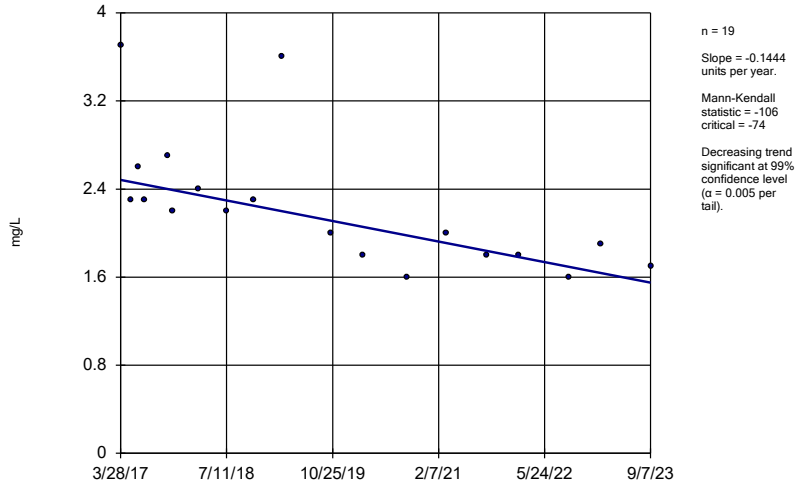
Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.1444 units per year.

Mann-Kendall statistic = -106 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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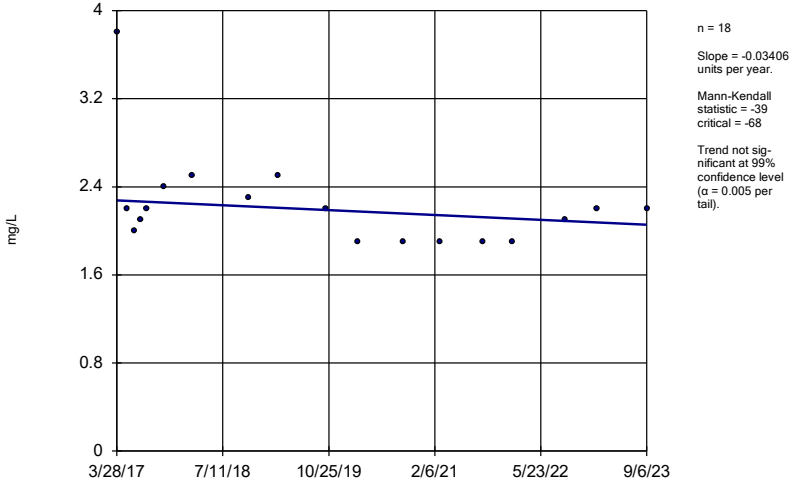
Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = -0.03406 units per year.

Mann-Kendall statistic = -39 critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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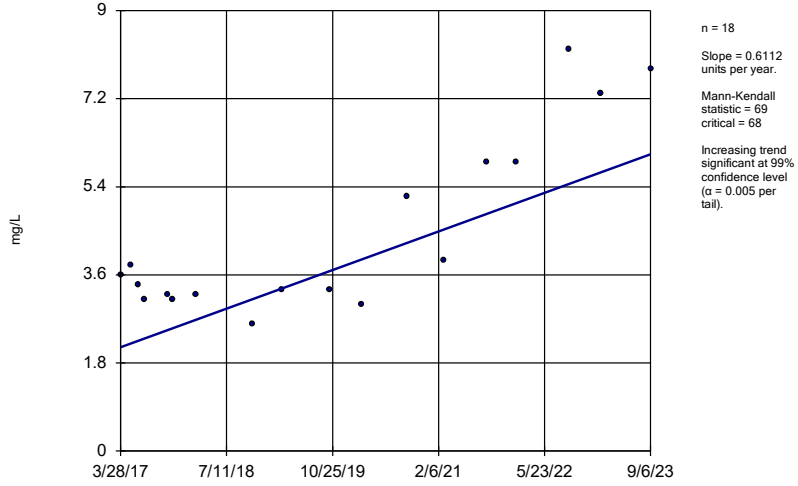
Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = 0.6112 units per year.

Mann-Kendall statistic = 69 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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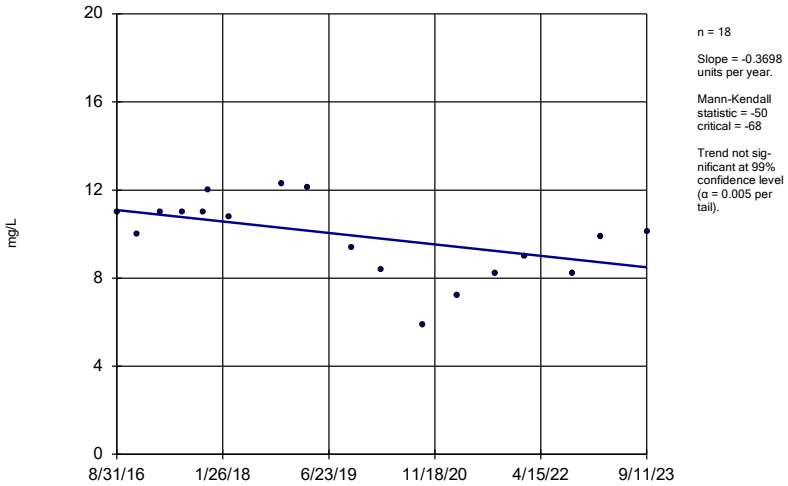
Sen's Slope Estimator

DGWC-10



n = 18

Slope = -0.3698 units per year.

Mann-Kendall statistic = -50
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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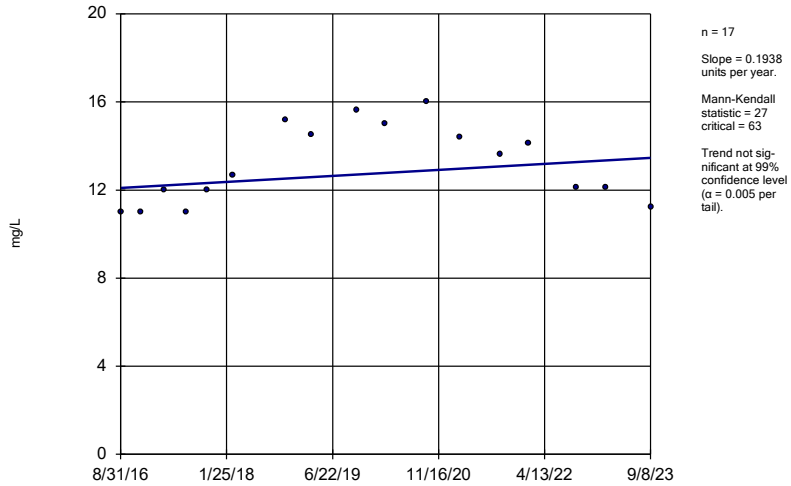
Sen's Slope Estimator

DGWC-11



n = 17

Slope = 0.1938 units per year.

Mann-Kendall statistic = 27
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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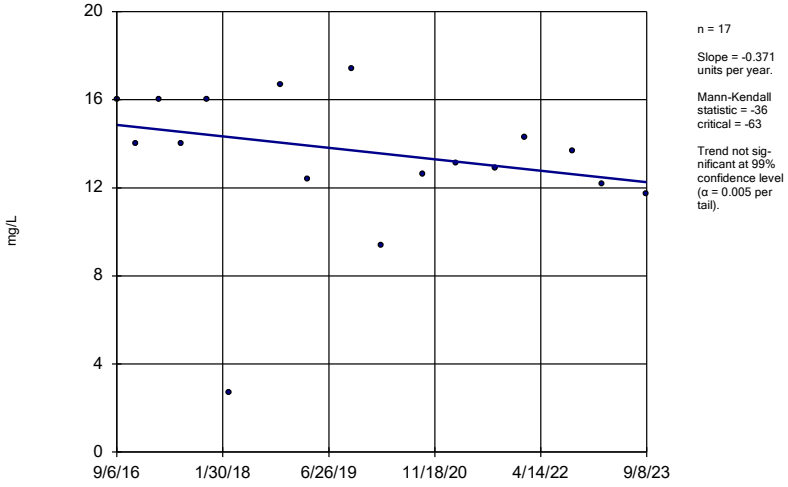
Sen's Slope Estimator

DGWC-13



n = 17

Slope = -0.371 units per year.

Mann-Kendall statistic = -36
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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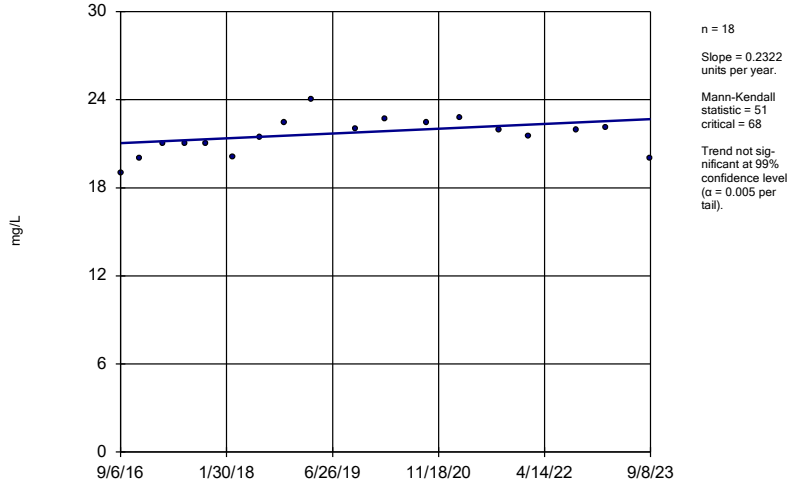
Sen's Slope Estimator

DGWC-15



n = 18

Slope = 0.2322 units per year.

Mann-Kendall statistic = 51
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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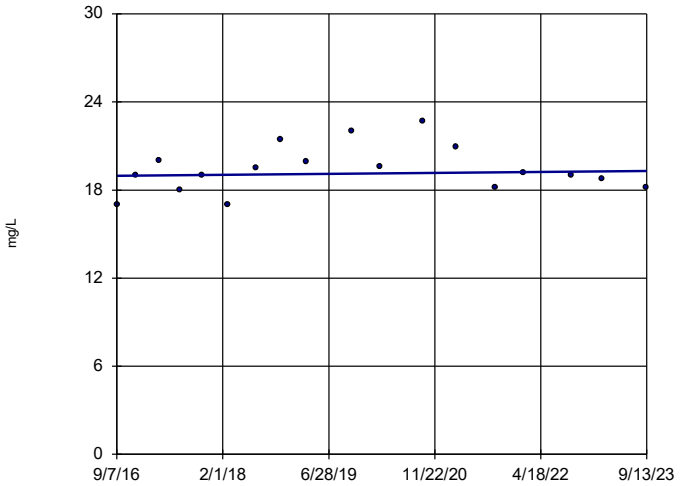
Sen's Slope Estimator

DGWC-17



n = 18

Slope = 0.04704 units per year.

Mann-Kendall statistic = 10
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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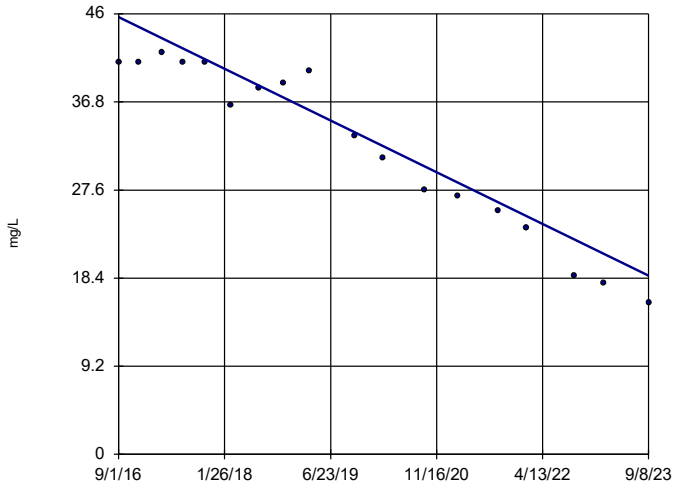
Sen's Slope Estimator

DGWC-19



n = 18

Slope = -3.845 units per year.

Mann-Kendall statistic = -131
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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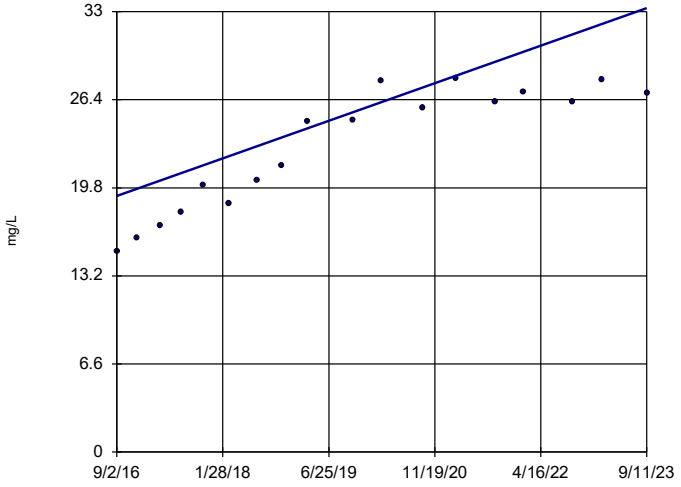
Sen's Slope Estimator

DGWC-20



n = 18

Slope = 2.004 units per year.

Mann-Kendall statistic = 124
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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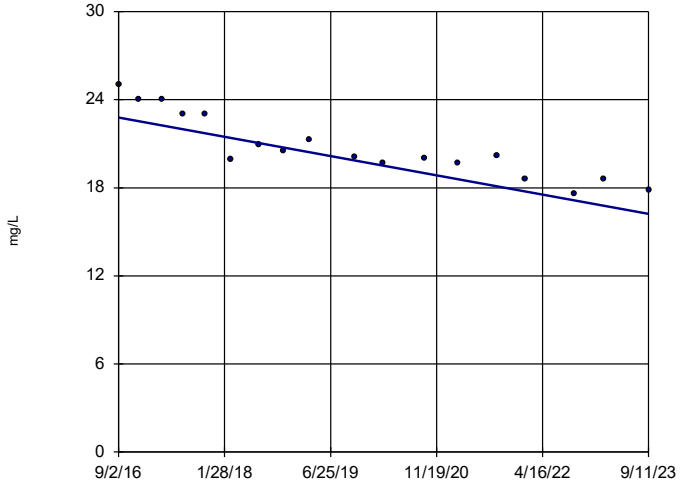
Sen's Slope Estimator

DGWC-21



n = 18

Slope = -0.9359 units per year.

Mann-Kendall statistic = -119
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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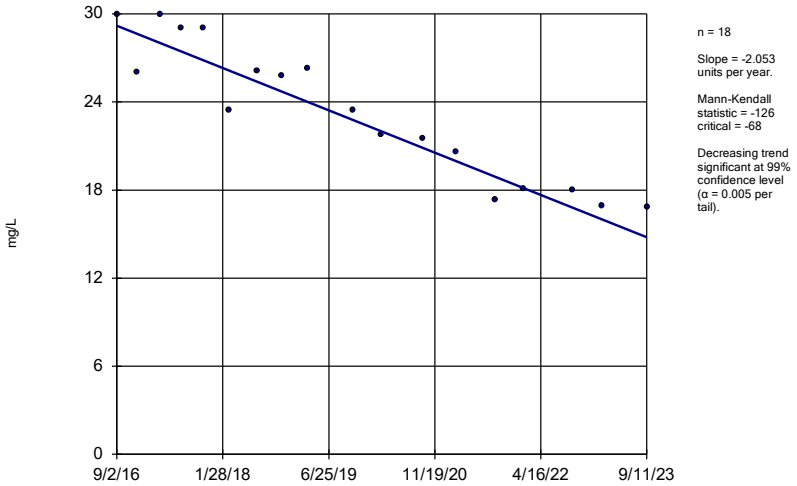
Sen's Slope Estimator

DGWC-22



n = 18

Slope = -2.053 units per year.

Mann-Kendall statistic = -126
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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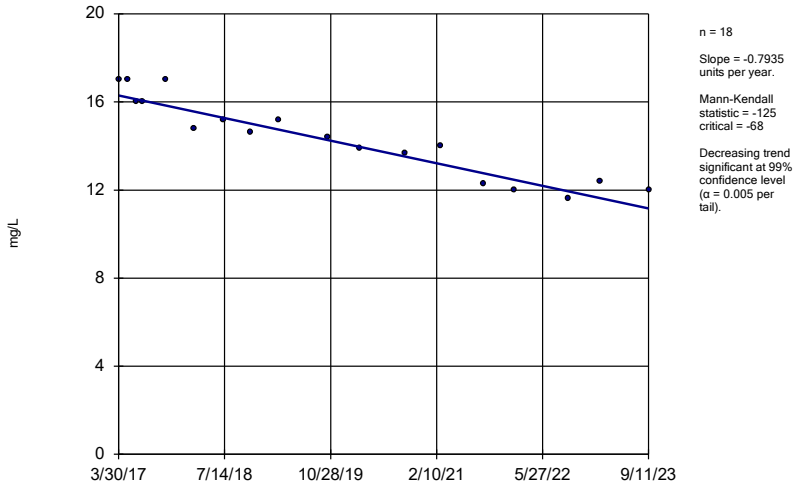
Sen's Slope Estimator

DGWC-23



n = 18

Slope = -0.7935 units per year.

Mann-Kendall statistic = -125
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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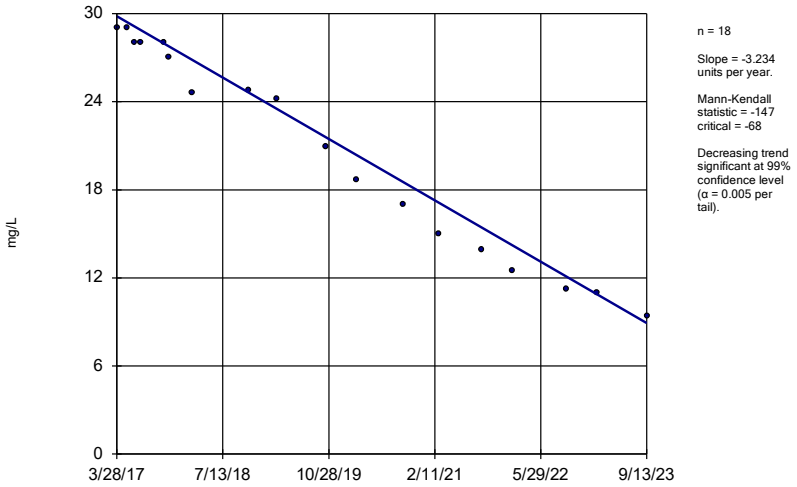
Sen's Slope Estimator

DGWC-4



n = 18

Slope = -3.234 units per year.

Mann-Kendall statistic = -147
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
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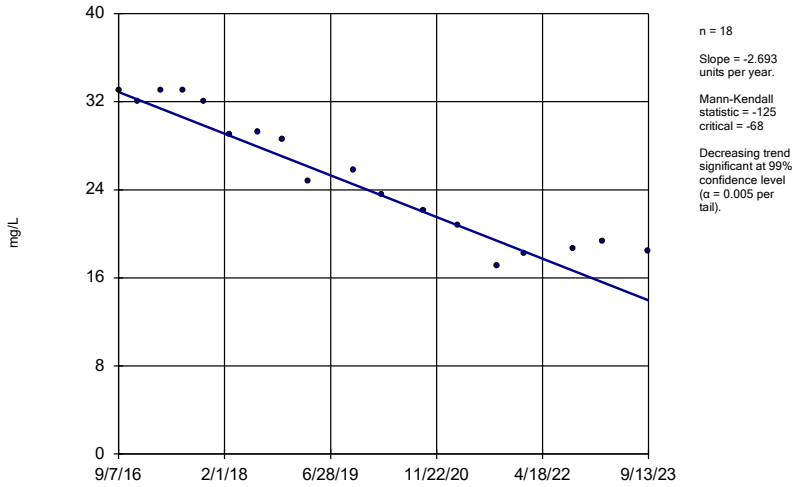
Sen's Slope Estimator

DGWC-42



n = 18

Slope = -2.693 units per year.

Mann-Kendall statistic = -125
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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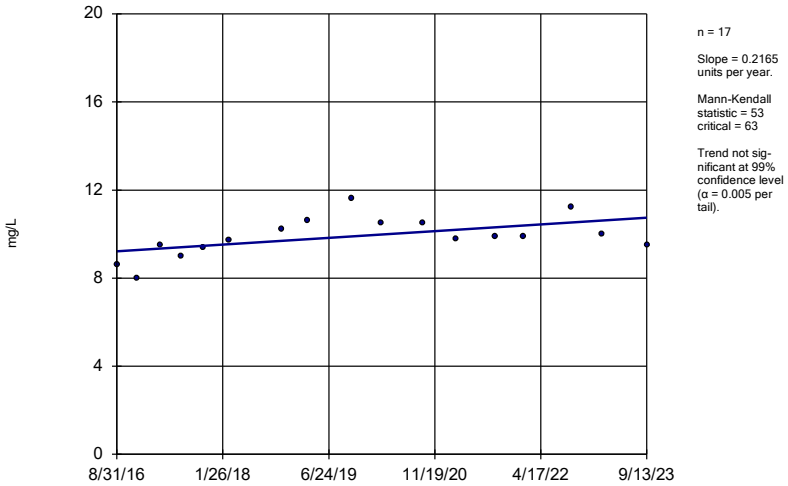
Sen's Slope Estimator

DGWC-5



n = 17

Slope = 0.2165 units per year.

Mann-Kendall statistic = 53 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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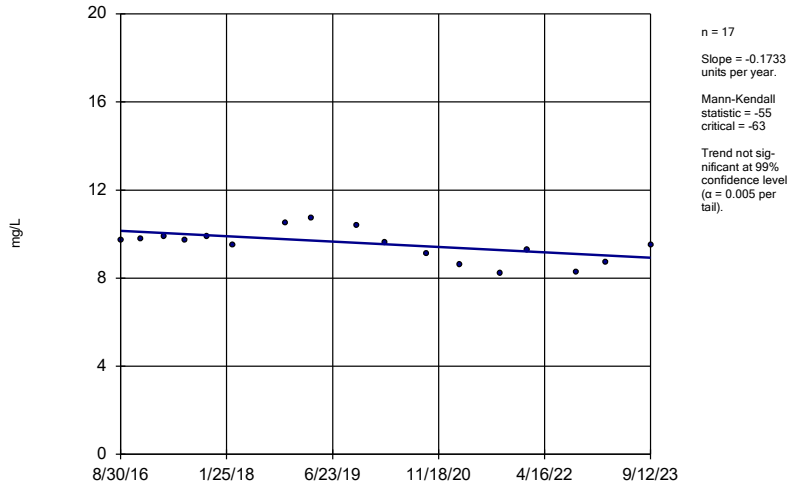
Sen's Slope Estimator

DGWC-8



n = 17

Slope = -0.1733 units per year.

Mann-Kendall statistic = -55 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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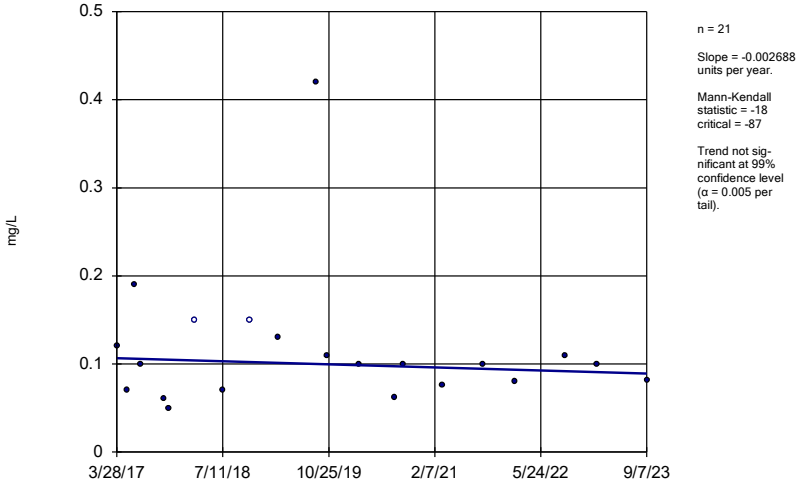
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = -0.002688 units per year.

Mann-Kendall statistic = -18 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

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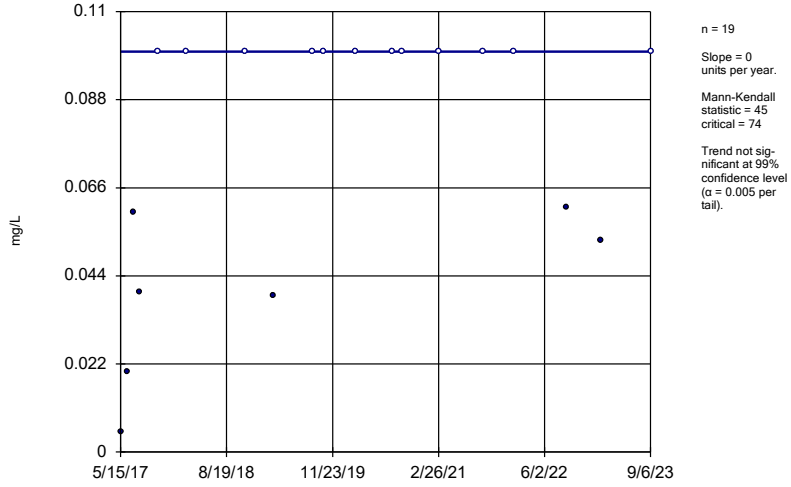
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 45 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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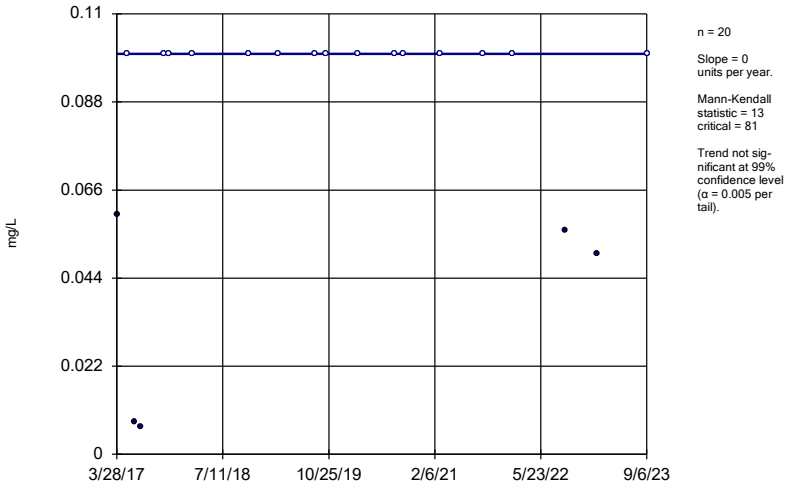
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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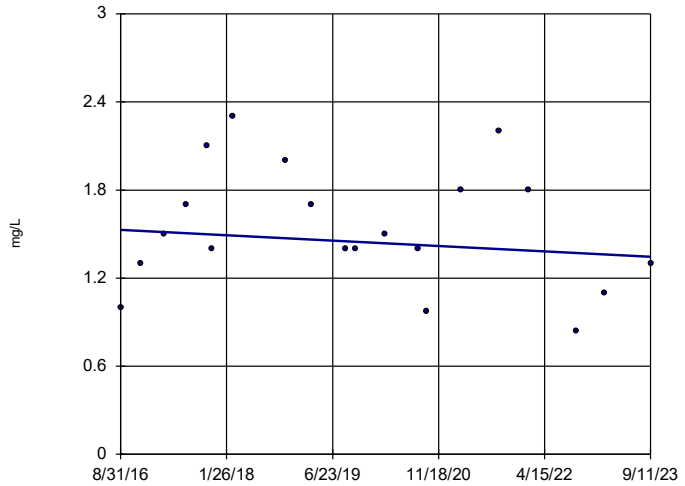
Sen's Slope Estimator

DGWC-10



n = 20

Slope = -0.02603 units per year.

Mann-Kendall statistic = -18
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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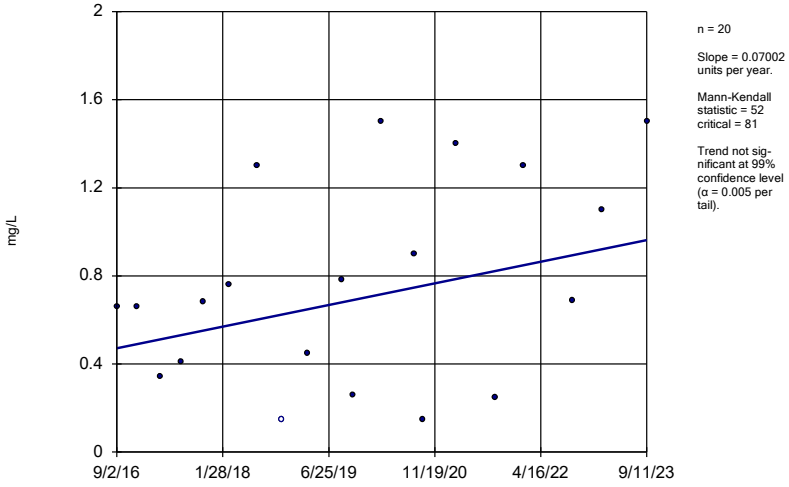
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-20



n = 20

Slope = 0.07002 units per year.

Mann-Kendall statistic = 52
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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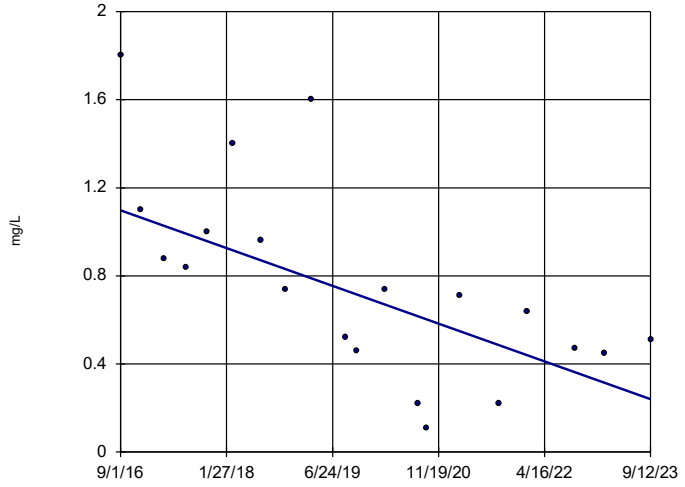
Sen's Slope Estimator

DGWC-47



n = 20

Slope = -0.1218 units per year.

Mann-Kendall statistic = -108
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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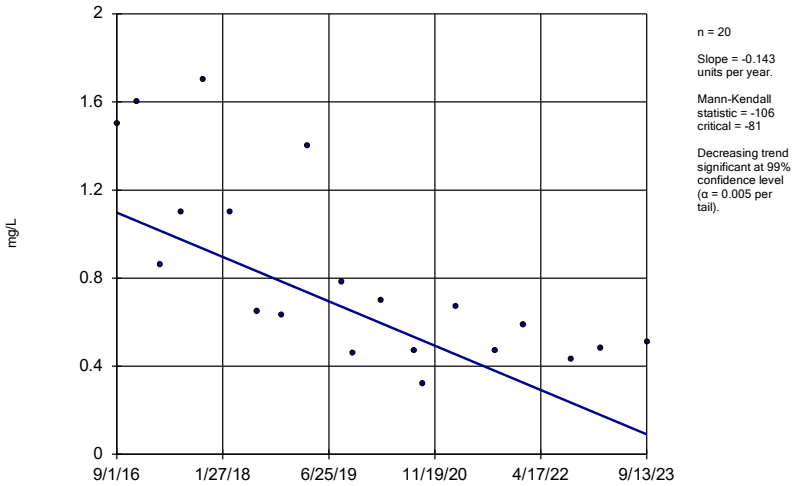
Sen's Slope Estimator

DGWC-48



n = 20

Slope = -0.143 units per year.

Mann-Kendall statistic = -106
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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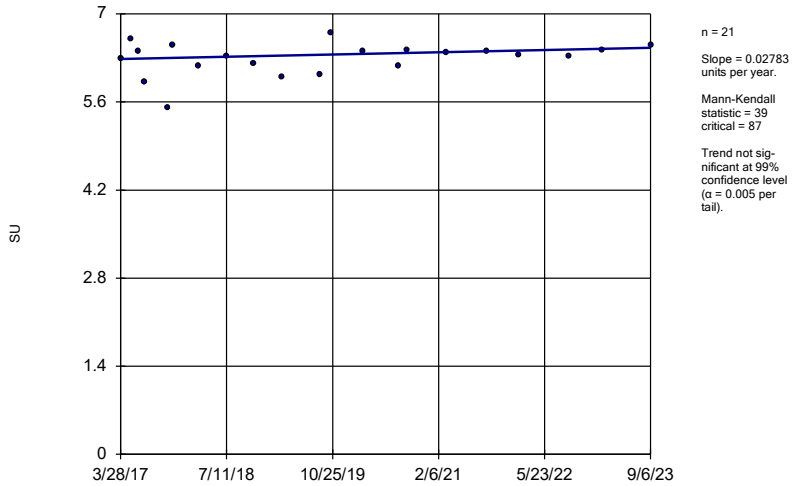
Sen's Slope Estimator

DGWA-53 (bg)



n = 21

Slope = 0.02783 units per year.

Mann-Kendall statistic = 39
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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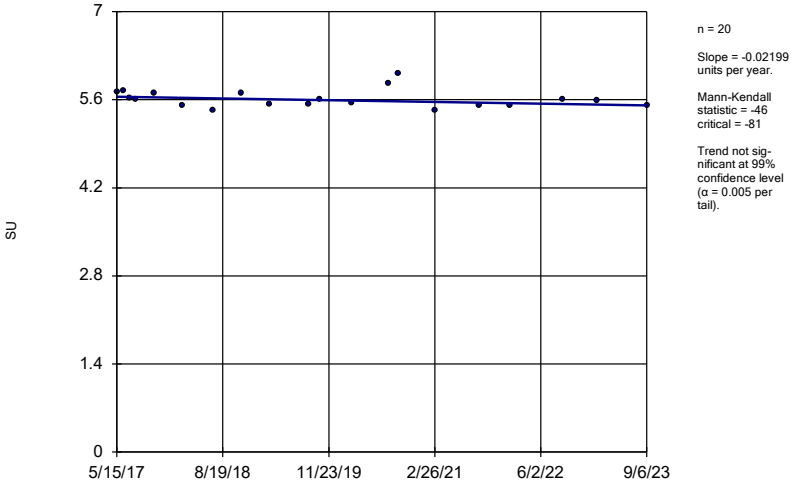
Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = -0.02199 units per year.

Mann-Kendall statistic = -46
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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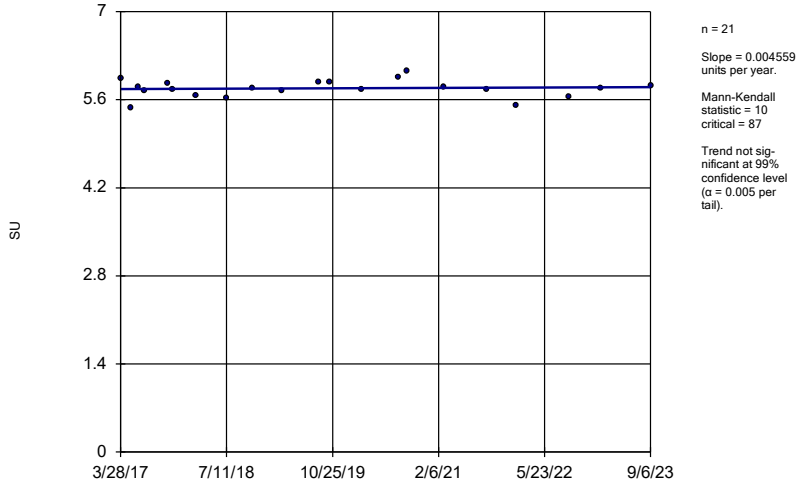
Sen's Slope Estimator

DGWA-71 (bg)



n = 21

Slope = 0.004559 units per year.

Mann-Kendall statistic = 10
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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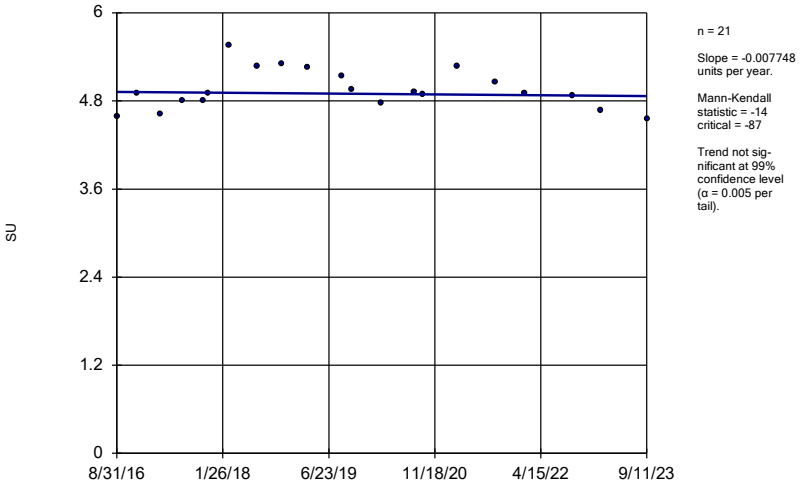
Sen's Slope Estimator

DGWC-10



n = 21

Slope = -0.007748 units per year.

Mann-Kendall statistic = -14
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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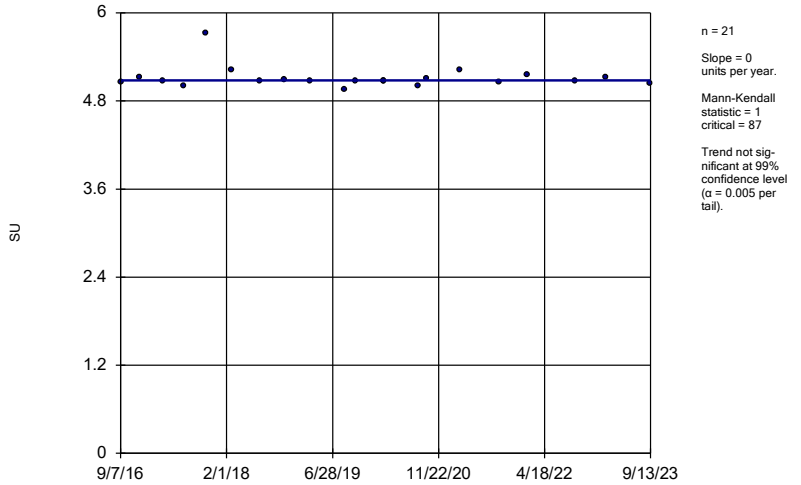
Sen's Slope Estimator

DGWC-17



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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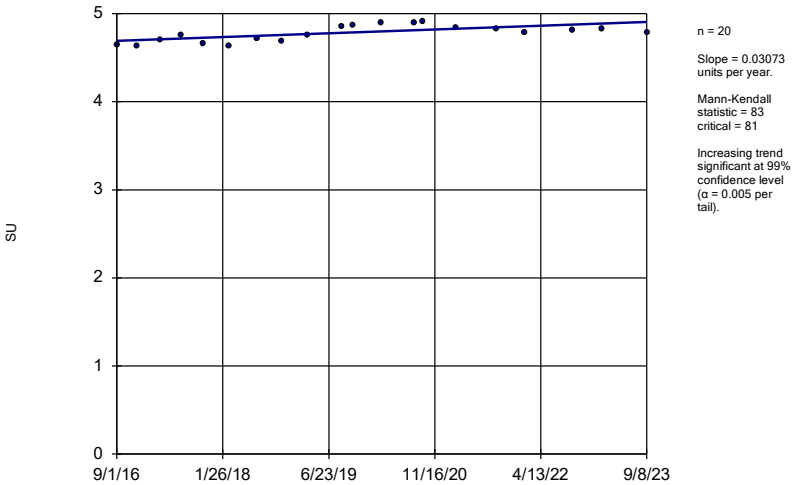
Sen's Slope Estimator

DGWC-19



n = 20

Slope = 0.03073 units per year.

Mann-Kendall statistic = 83
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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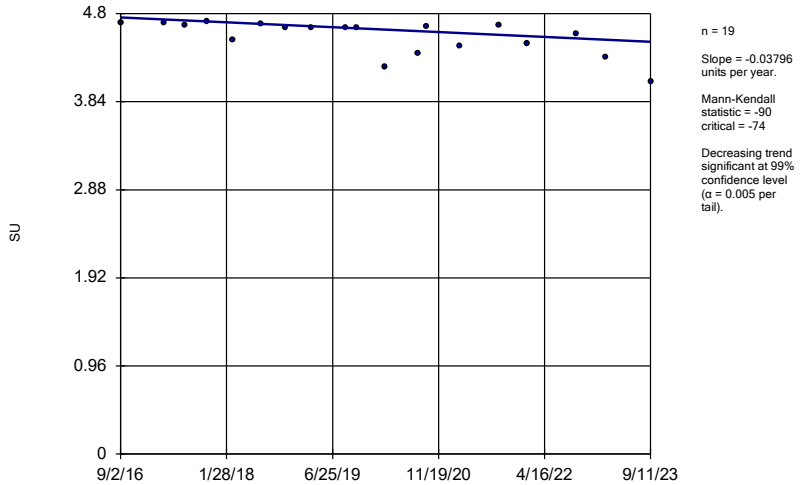
Sen's Slope Estimator

DGWC-20



n = 19

Slope = -0.03796 units per year.

Mann-Kendall statistic = -90
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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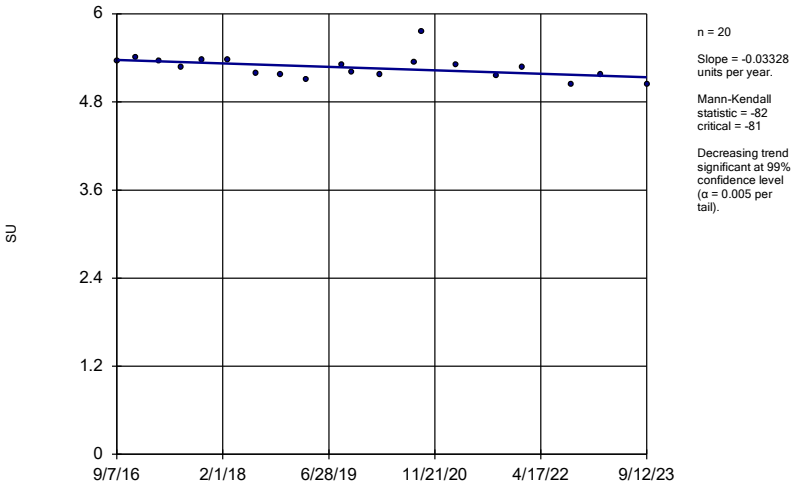
Sen's Slope Estimator

DGWC-42



n = 20

Slope = -0.03328 units per year.

Mann-Kendall statistic = -82
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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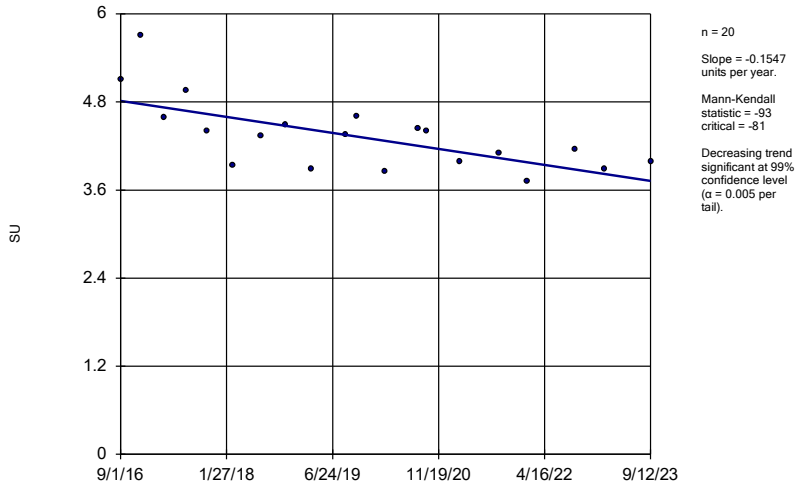
Sen's Slope Estimator

DGWC-47



n = 20

Slope = -0.1547 units per year.

Mann-Kendall statistic = -93
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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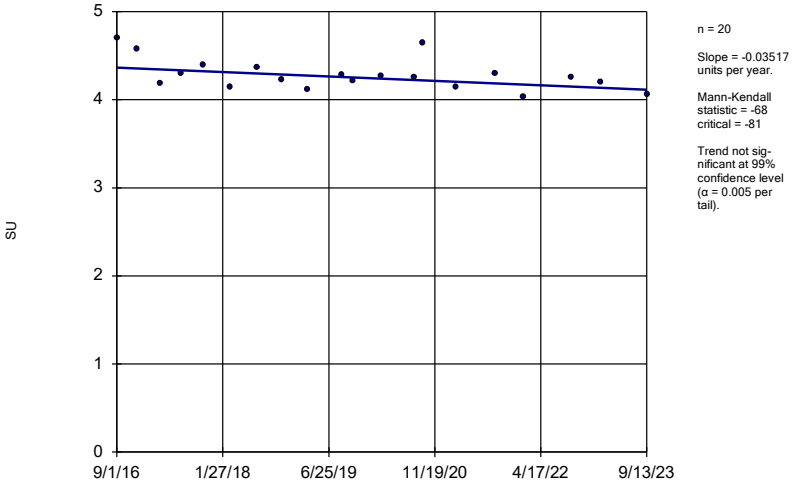
Sen's Slope Estimator

DGWC-48



n = 20

Slope = -0.03517 units per year.

Mann-Kendall statistic = -68
critical = -81

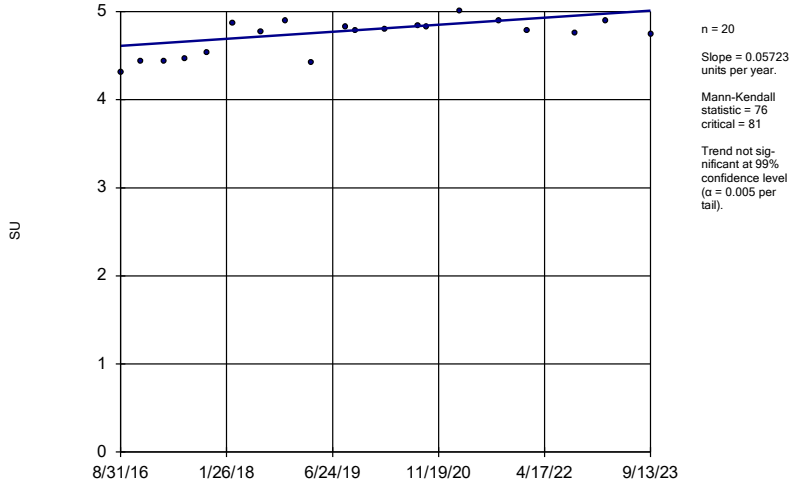
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

Sanitas™ v.10.0.16 Software licensed to . UG

Sen's Slope Estimator

DGWC-5



n = 20

Slope = 0.05723 units per year.

Mann-Kendall statistic = 76
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:18 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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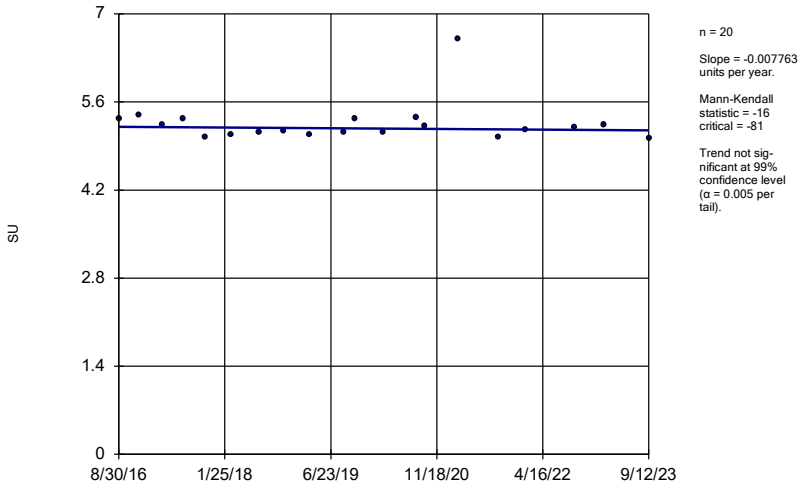
Sen's Slope Estimator

DGWC-8



n = 20

Slope = -0.007763 units per year.

Mann-Kendall statistic = -16
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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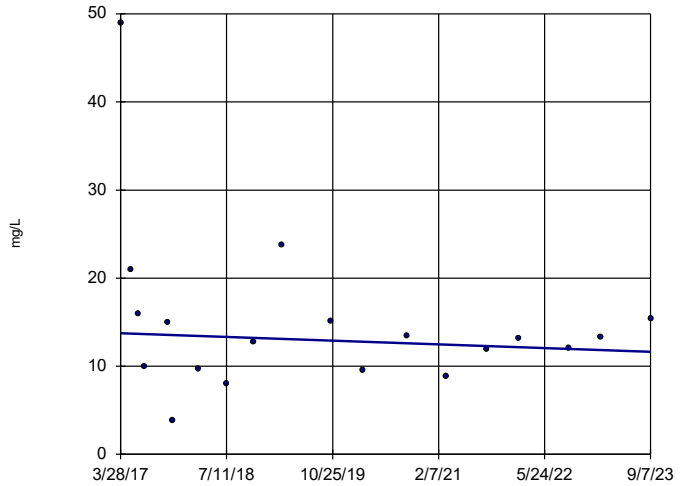
Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.3271 units per year.

Mann-Kendall statistic = -19
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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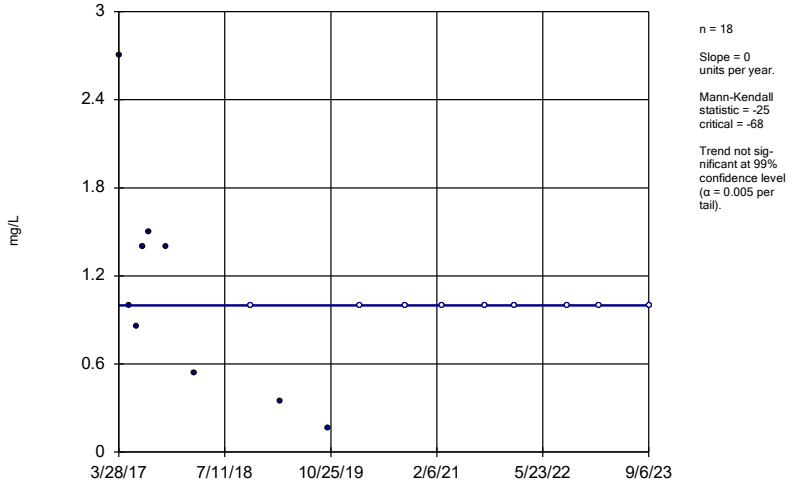
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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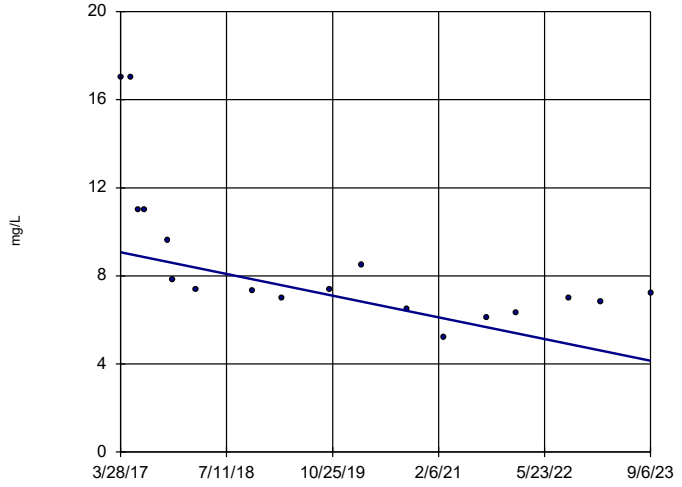
Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = -0.7648 units per year.

Mann-Kendall statistic = -99
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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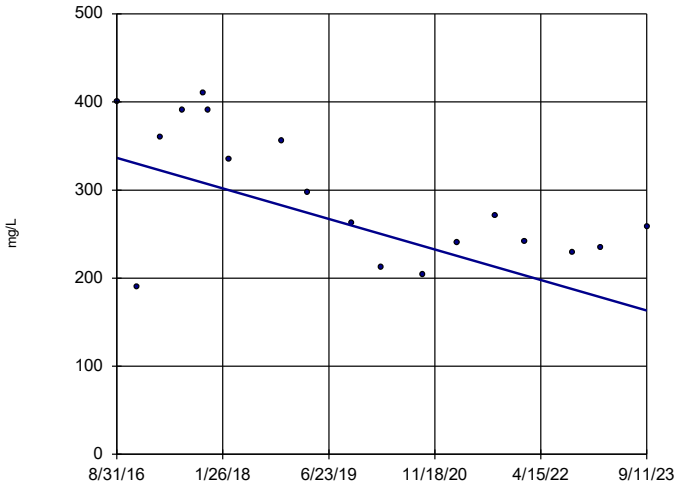
Sen's Slope Estimator

DGWC-10



n = 18

Slope = -24.62 units per year.

Mann-Kendall statistic = -68
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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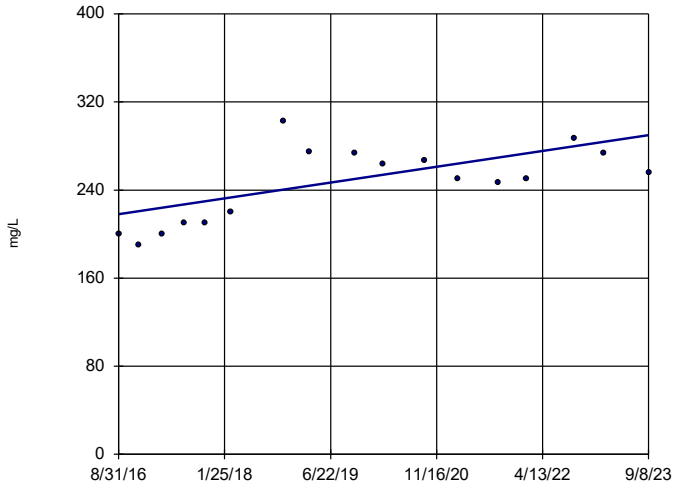
Sen's Slope Estimator

DGWC-11



n = 17

Slope = 10.22 units per year.

Mann-Kendall statistic = 58
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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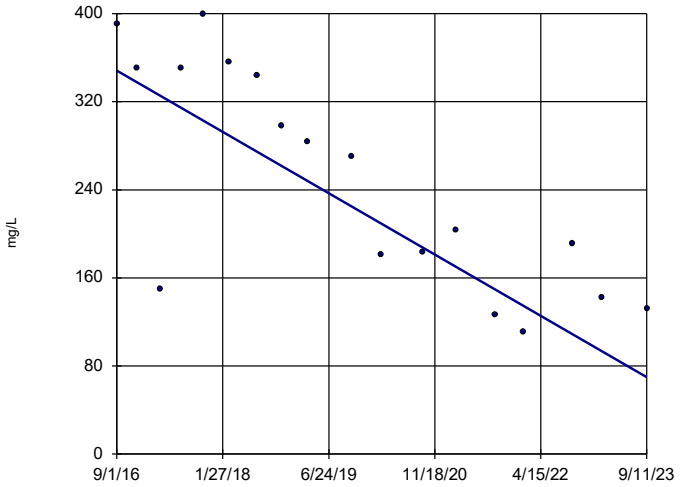
Sen's Slope Estimator

DGWC-12



n = 18

Slope = -39.62 units per year.

Mann-Kendall statistic = -98
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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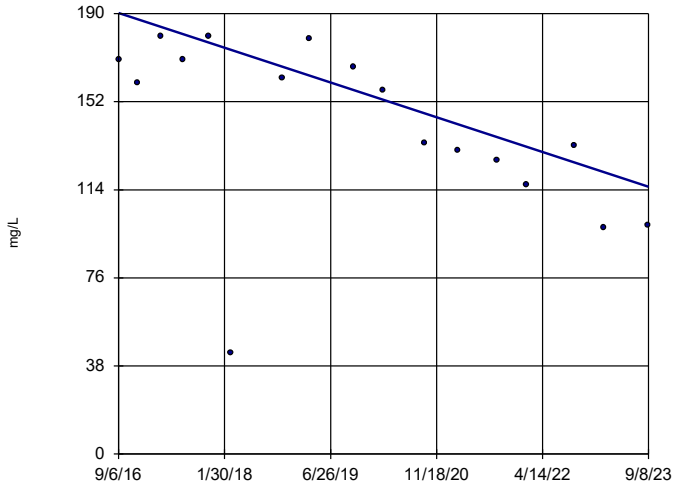
Sen's Slope Estimator

DGWC-13



n = 17

Slope = -10.7 units per year.

Mann-Kendall statistic = -78
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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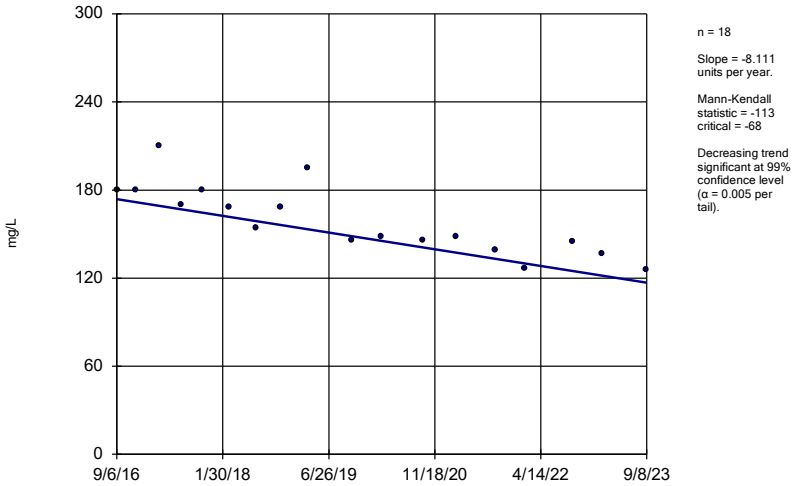
Sen's Slope Estimator

DGWC-15



n = 18

Slope = -8.111 units per year.

Mann-Kendall statistic = -113
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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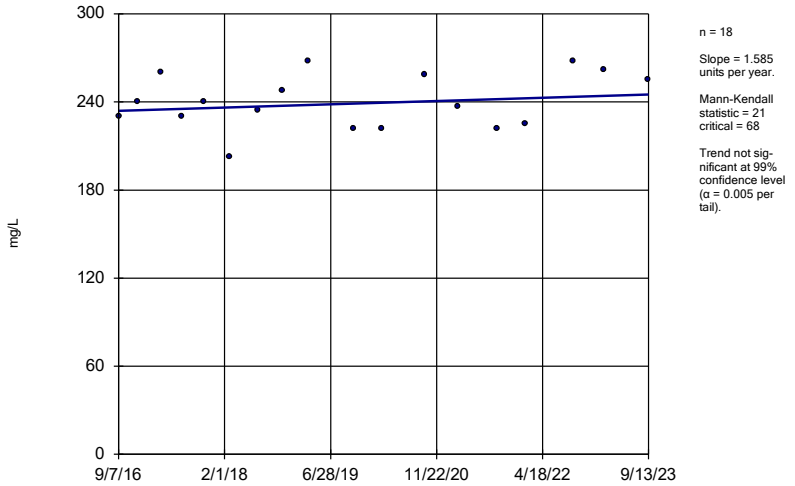
Sen's Slope Estimator

DGWC-17



n = 18

Slope = 1.585 units per year.

Mann-Kendall statistic = 21
critical = 68

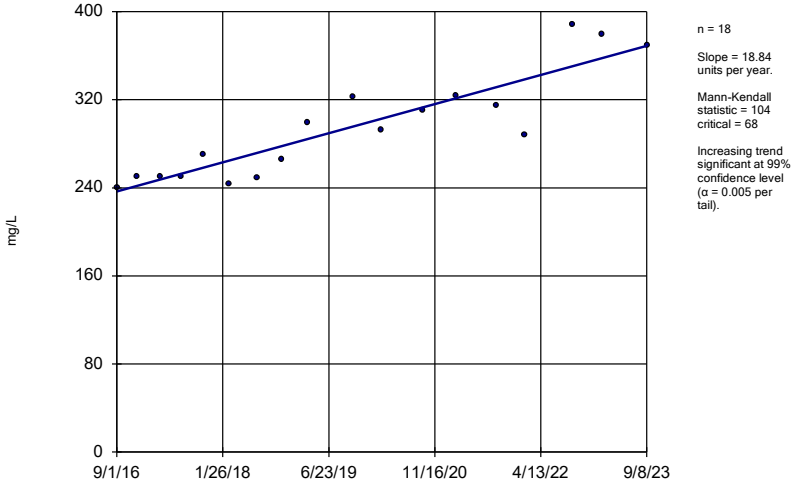
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

Sanitas™ v.10.0.16 Software licensed to . UG

Sen's Slope Estimator

DGWC-19



n = 18

Slope = 18.84 units per year.

Mann-Kendall statistic = 104
critical = 68

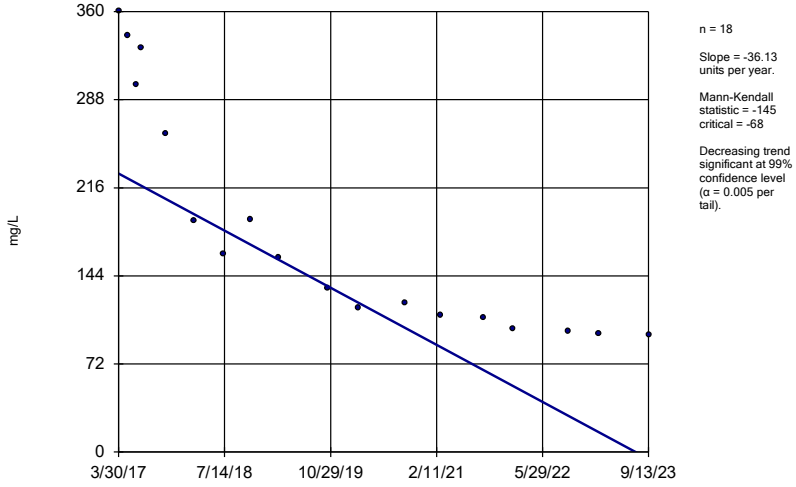
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

Sanitas™ v.10.0.16 Software licensed to . UG

Sen's Slope Estimator

DGWC-2



n = 18

Slope = -36.13 units per year.

Mann-Kendall statistic = -145
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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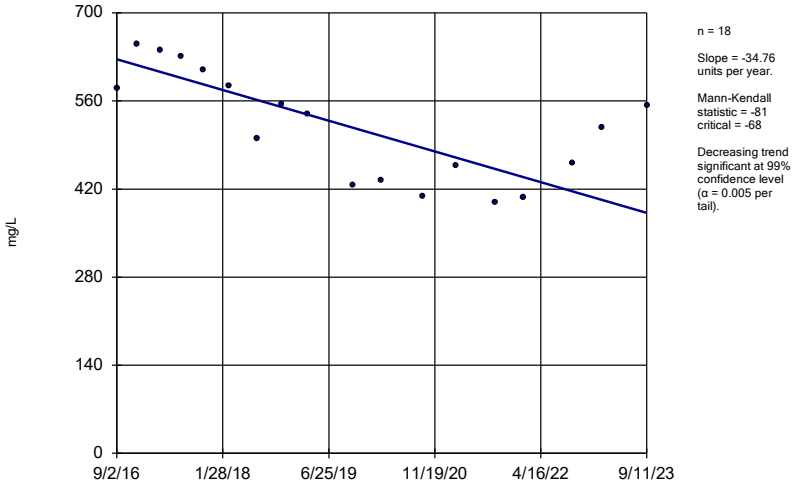
Sen's Slope Estimator

DGWC-20



n = 18

Slope = -34.76 units per year.

Mann-Kendall statistic = -81 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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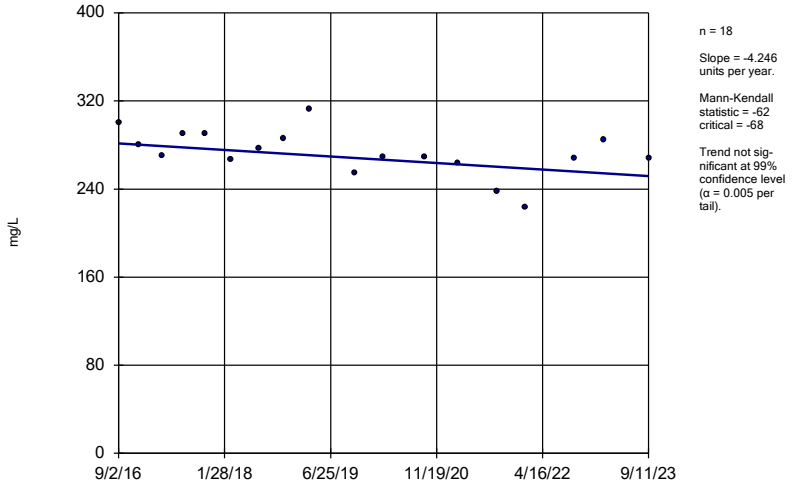
Sen's Slope Estimator

DGWC-21



n = 18

Slope = -4.246 units per year.

Mann-Kendall statistic = -62 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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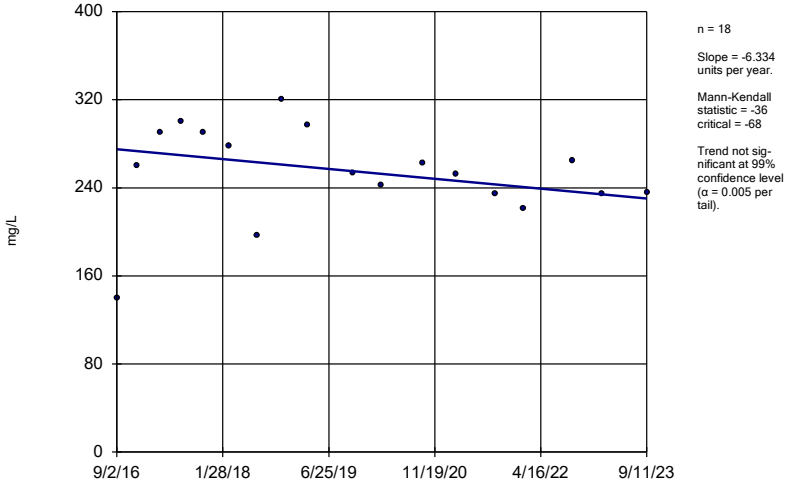
Sen's Slope Estimator

DGWC-22



n = 18

Slope = -6.334 units per year.

Mann-Kendall statistic = -36 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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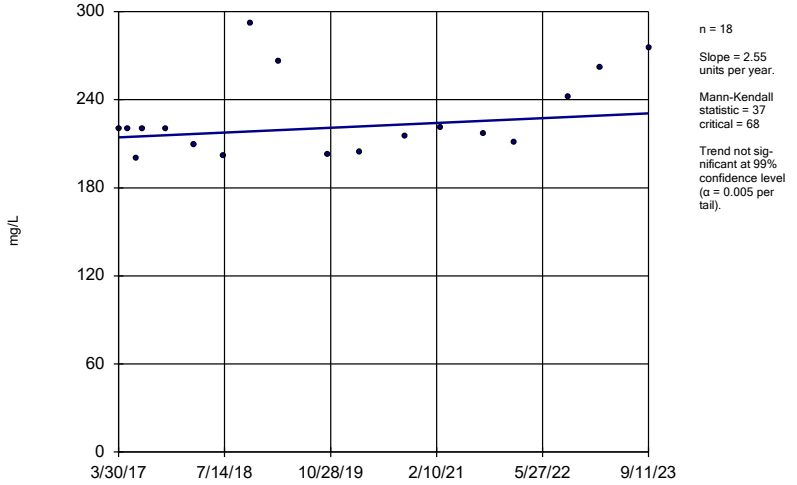
Sen's Slope Estimator

DGWC-23



n = 18

Slope = 2.55 units per year.

Mann-Kendall statistic = 37 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests

Plant McDonough Data: McDonough AP

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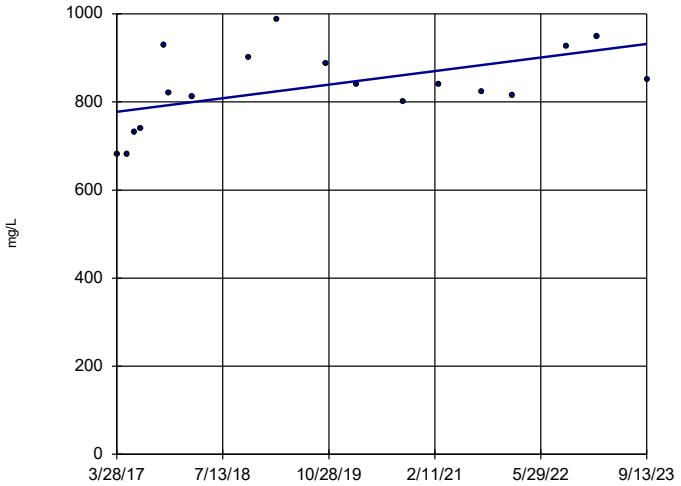
Sen's Slope Estimator

DGWC-4



n = 18

Slope = 23.78 units per year.

Mann-Kendall statistic = 61
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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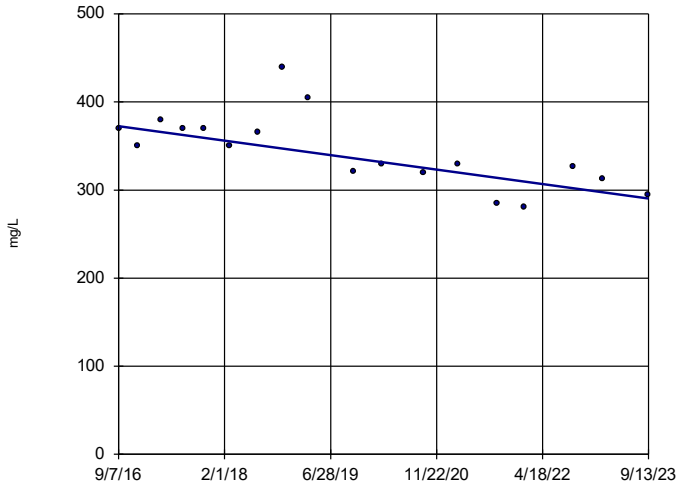
Sen's Slope Estimator

DGWC-42



n = 18

Slope = -11.69 units per year.

Mann-Kendall statistic = -86
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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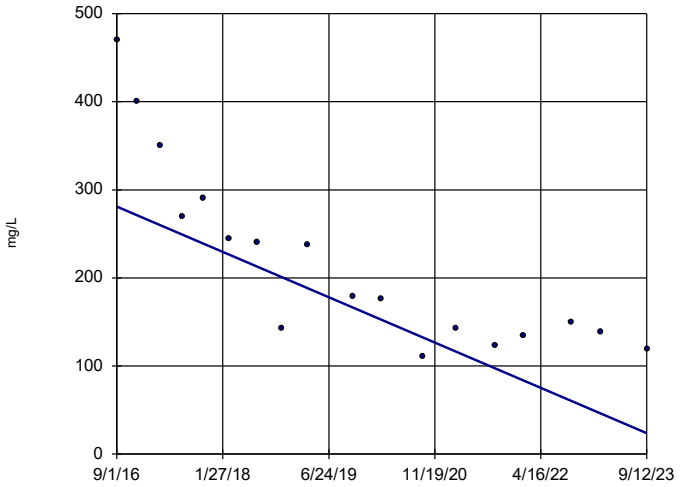
Sen's Slope Estimator

DGWC-47



n = 18

Slope = -36.55 units per year.

Mann-Kendall statistic = -118
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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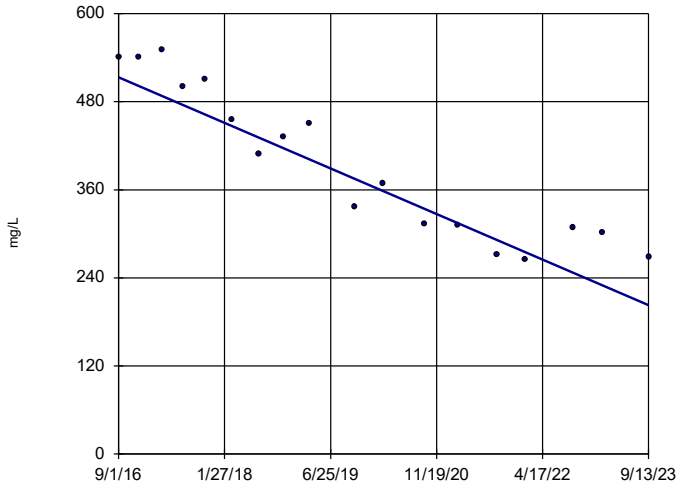
Sen's Slope Estimator

DGWC-48



n = 18

Slope = -44.14 units per year.

Mann-Kendall statistic = -128
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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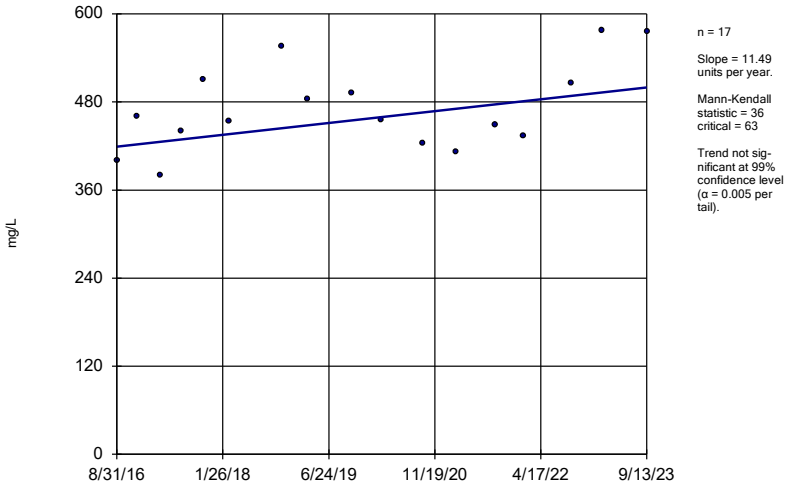
Sen's Slope Estimator

DGWC-5



n = 17

Slope = 11.49 units per year.

Mann-Kendall statistic = 36
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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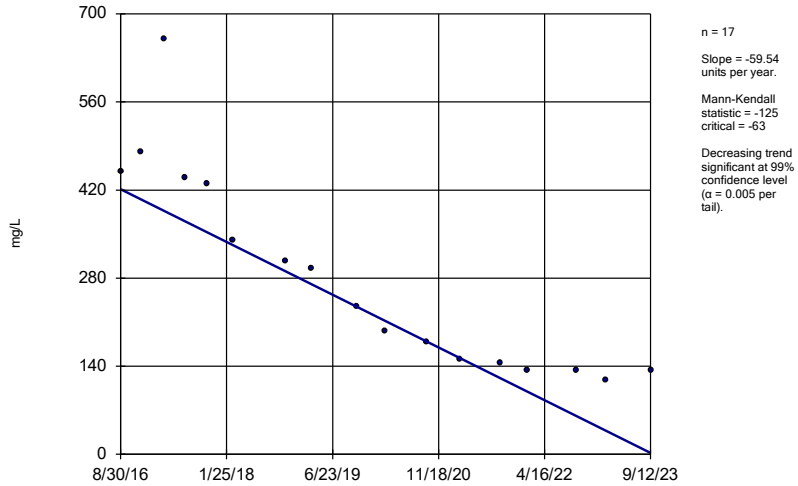
Sen's Slope Estimator

DGWC-8



n = 17

Slope = -59.54 units per year.

Mann-Kendall statistic = -125
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Trend Tests
Plant McDonough Data: McDonough AP

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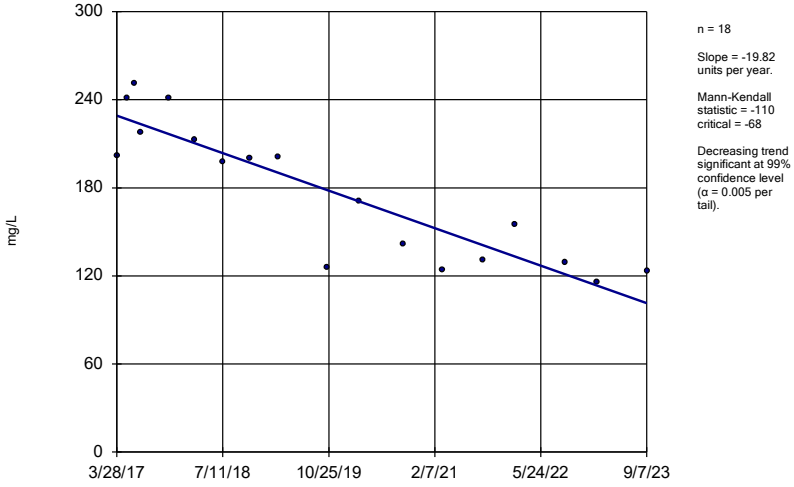
Sen's Slope Estimator

DGWA-53 (bg)



n = 18

Slope = -19.82 units per year.

Mann-Kendall statistic = -110
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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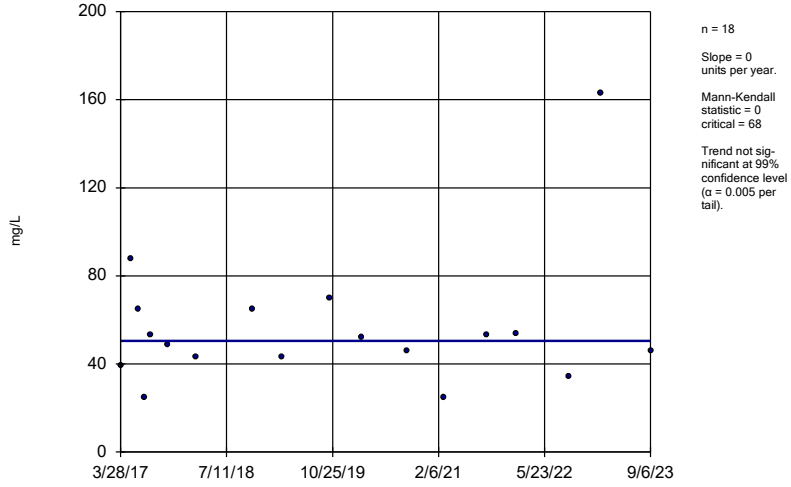
Sen's Slope Estimator

DGWA-70A (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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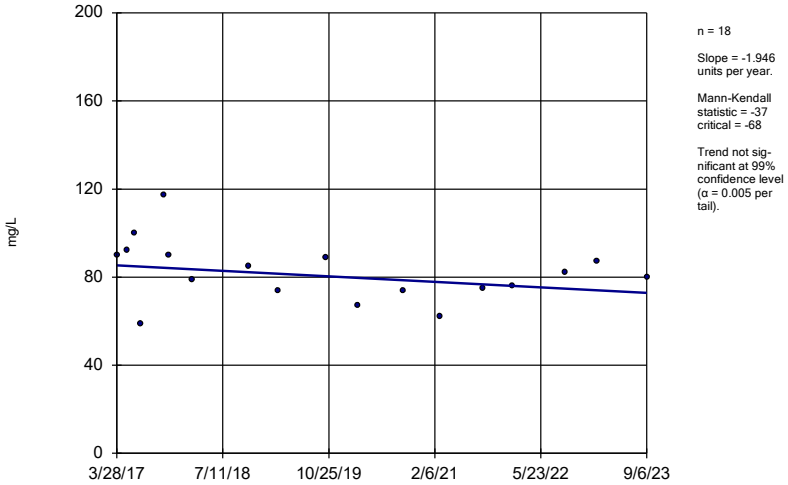
Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = -1.946 units per year.

Mann-Kendall statistic = -37 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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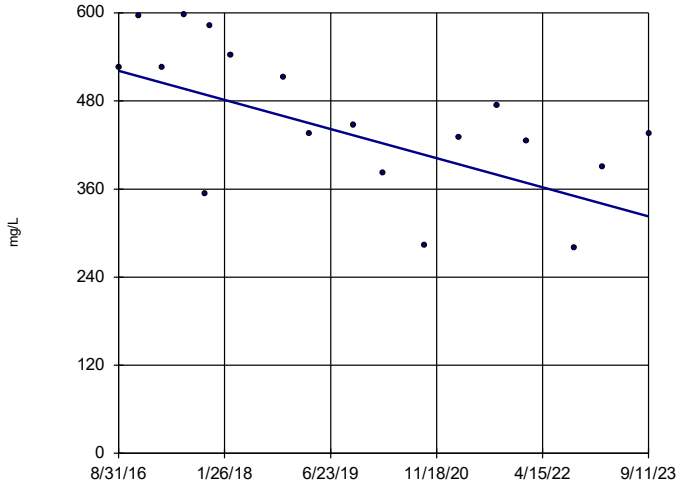
Sen's Slope Estimator

DGWC-10



n = 18

Slope = -28.26 units per year.

Mann-Kendall statistic = -75 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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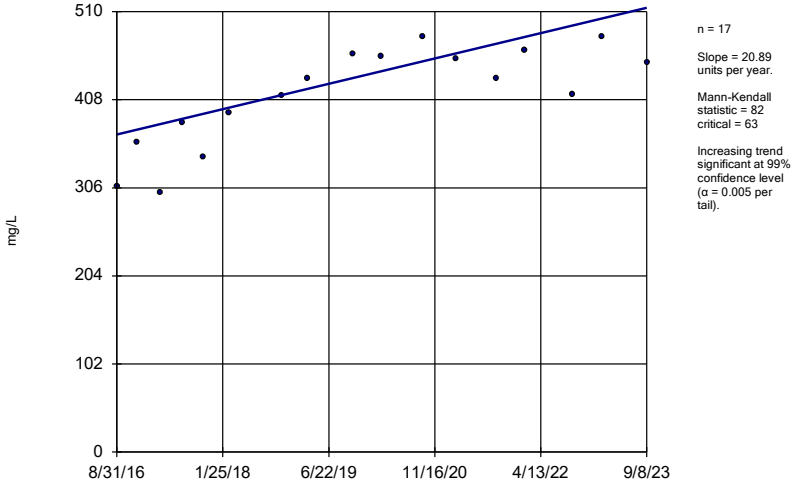
Sen's Slope Estimator

DGWC-11



n = 17

Slope = 20.89 units per year.

Mann-Kendall statistic = 82 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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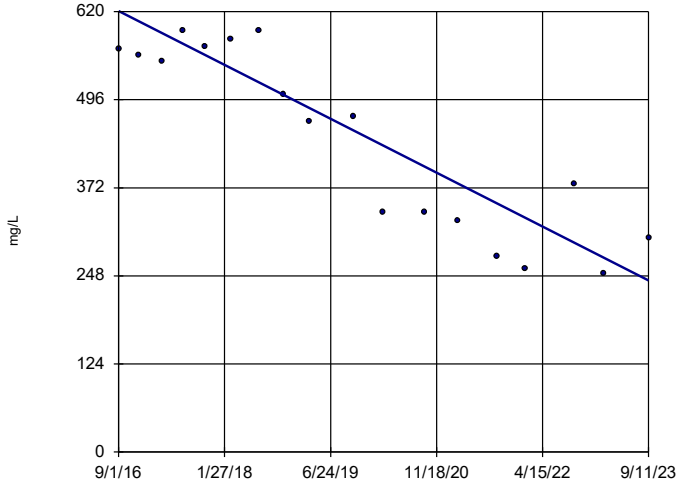
Sen's Slope Estimator

DGWC-12



n = 18

Slope = -53.95 units per year.

Mann-Kendall statistic = -104 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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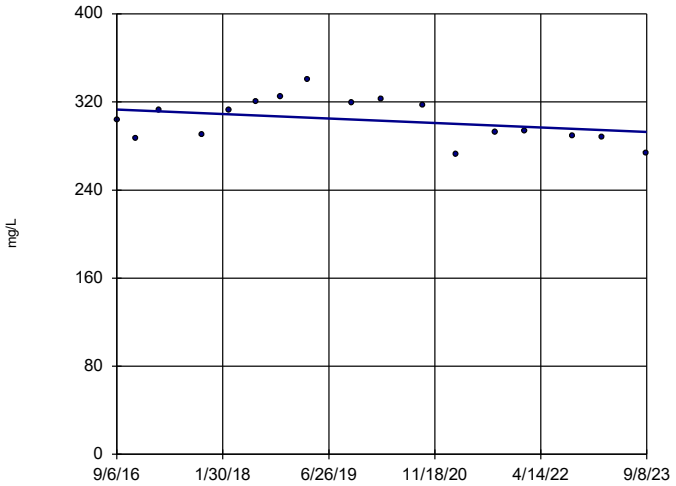
Sen's Slope Estimator

DGWC-15



n = 17

Slope = -2.912 units per year.

Mann-Kendall statistic = -28 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

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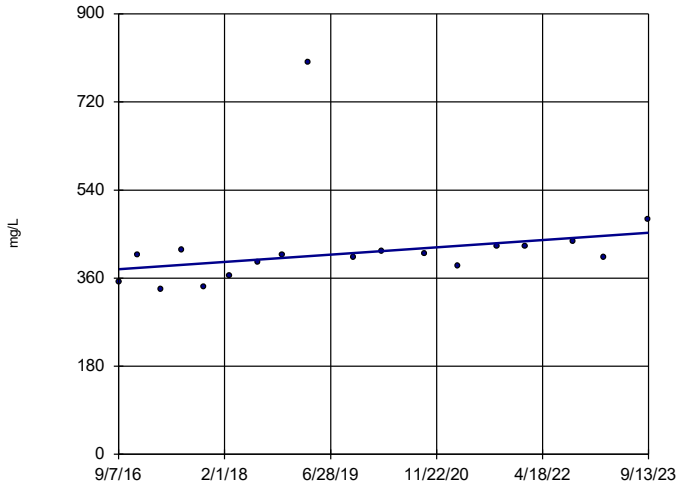
Sen's Slope Estimator

DGWC-17



n = 18

Slope = 10.64 units per year.

Mann-Kendall statistic = 71 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

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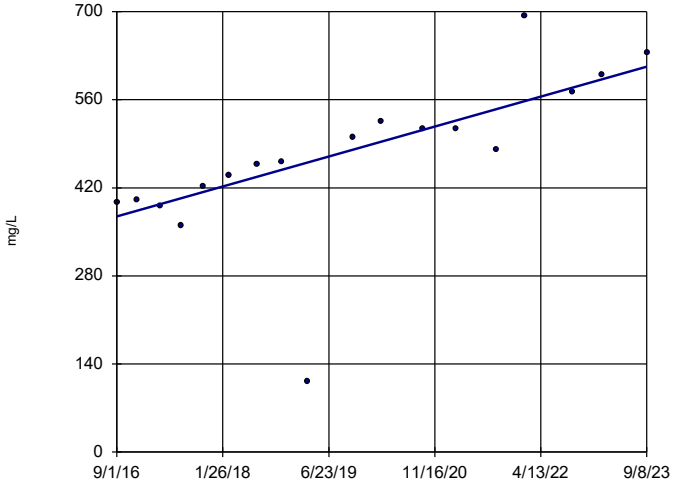
Sen's Slope Estimator

DGWC-19



n = 18

Slope = 33.89 units per year.

Mann-Kendall statistic = 108 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

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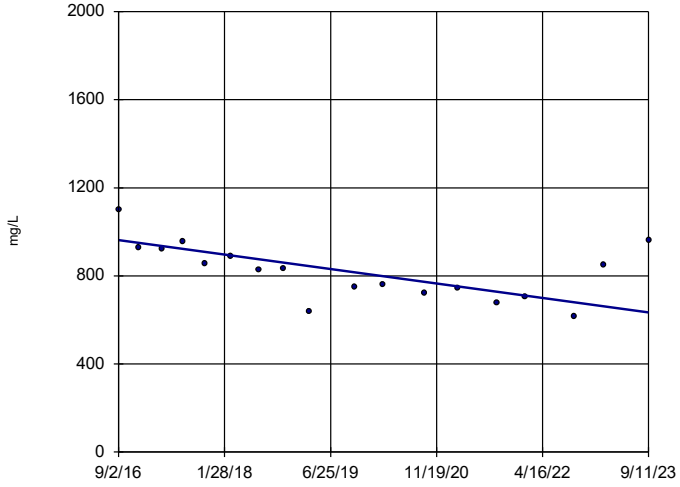
Sen's Slope Estimator

DGWC-20



n = 18

Slope = -46.69 units per year.

Mann-Kendall statistic = -75 critical = -68

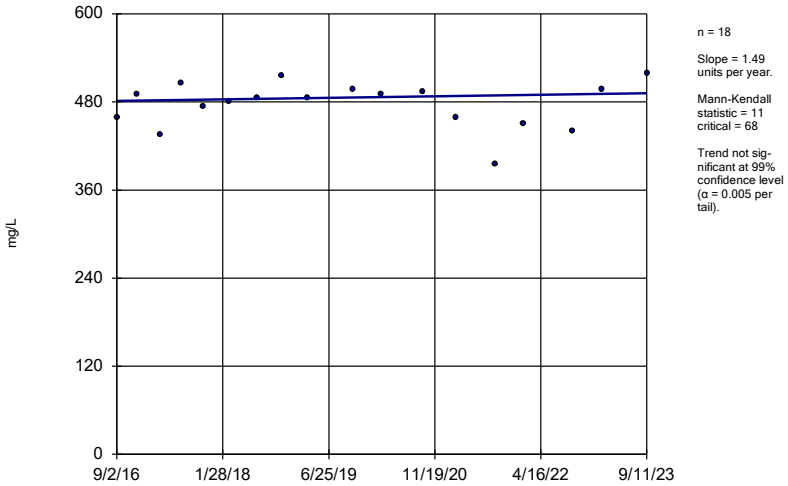
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

Sen's Slope Estimator

DGWC-21



n = 18

Slope = 1.49 units per year.

Mann-Kendall statistic = 11 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

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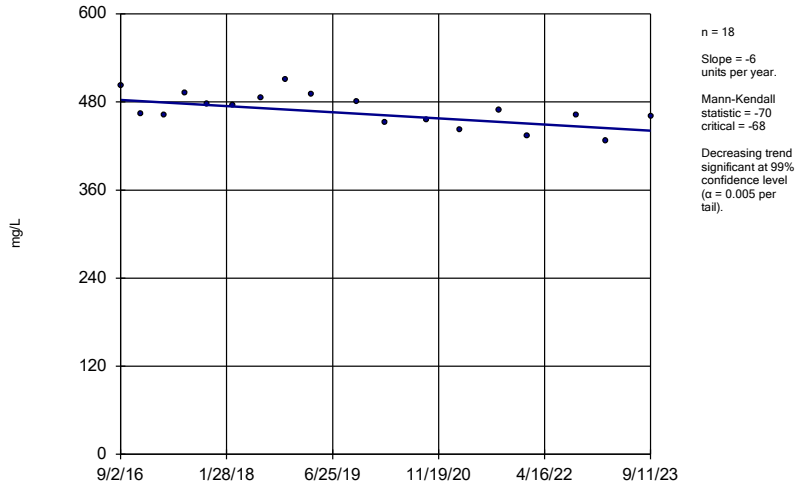
Sen's Slope Estimator

DGWC-22



n = 18

Slope = -6 units per year.

Mann-Kendall statistic = -70 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

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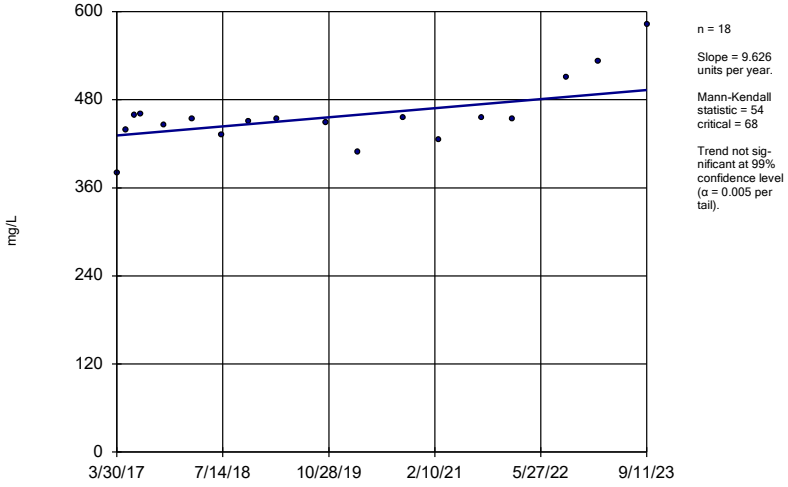
Sen's Slope Estimator

DGWC-23



n = 18

Slope = 9.626 units per year.

Mann-Kendall statistic = 54 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

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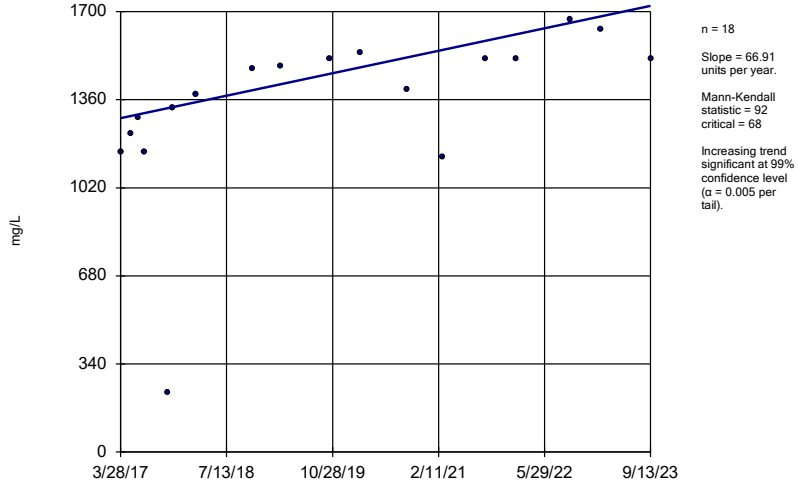
Sen's Slope Estimator

DGWC-4



n = 18

Slope = 66.91 units per year.

Mann-Kendall statistic = 92 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

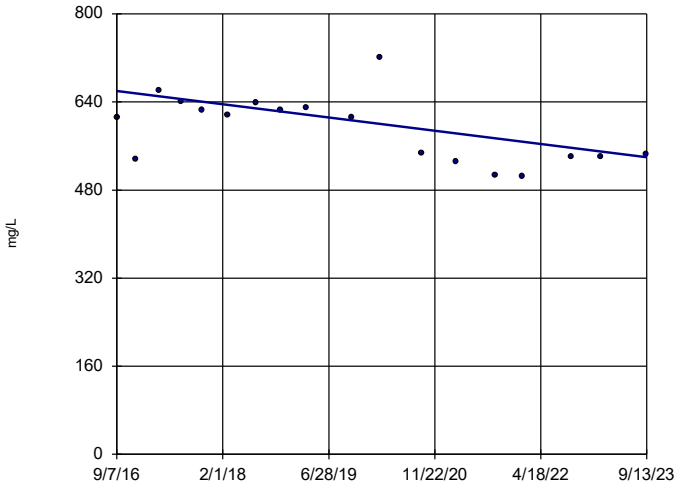
Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre

Plant McDonough Data: McDonough AP

Sanitas™ v.10.0.16 Software licensed to . UG

Sen's Slope Estimator

DGWC-42



n = 18

Slope = -17.14 units per year.

Mann-Kendall statistic = -56
critical = -68

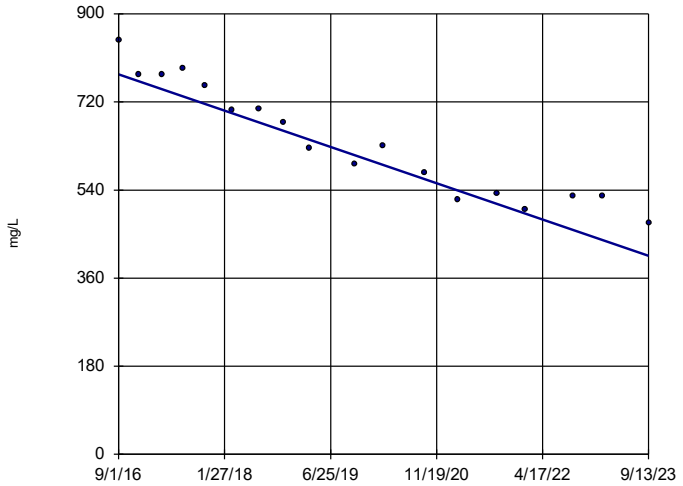
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

Sanitas™ v.10.0.16 Software licensed to . UG

Sen's Slope Estimator

DGWC-48



n = 18

Slope = -52.69 units per year.

Mann-Kendall statistic = -132
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

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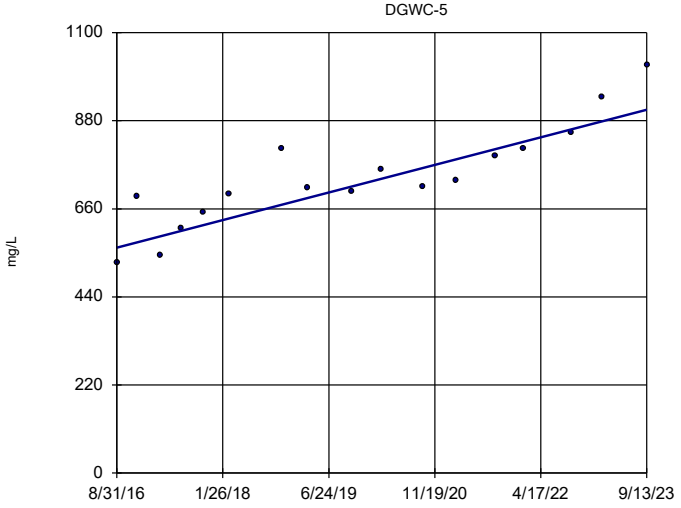
Sen's Slope Estimator

DGWC-5



n = 17

Slope = 48.86 units per year.

Mann-Kendall statistic = 112
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 2/14/2024 9:19 AM View: AP 234 Appendix III Tre
Plant McDonough Data: McDonough AP

FIGURE F.

Upper Tolerance Limit Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 11/21/2023, 5:13 PM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0045	n/a	n/a	n/a	56	82.14	n/a	n/a	0.05656	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	56	75	n/a	n/a	0.05656	NP Inter(NDs)
Barium (mg/L)	0.19	n/a	n/a	n/a	56	0	n/a	n/a	0.05656	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	57	54.39	n/a	n/a	0.05373	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	56	92.86	n/a	n/a	0.05656	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	55	69.09	n/a	n/a	0.05954	NP Inter(NDs)
Cobalt (mg/L)	0.0322	n/a	n/a	n/a	56	42.86	n/a	n/a	0.05656	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.866	n/a	n/a	n/a	58	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	60	48.33	n/a	n/a	0.04607	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	56	83.93	n/a	n/a	0.05656	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	56	35.71	n/a	n/a	0.05656	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	56	85.71	n/a	n/a	0.05656	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	56	64.29	n/a	n/a	0.05656	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	56	100	n/a	n/a	0.05656	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	56	94.64	n/a	n/a	0.05656	NP Inter(NDs)

FIGURE G.

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0045	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		4.87	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 1/16/2024, 2:23 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	0.02032	0.0134	0.004	Yes	7	0.01686	0.002911	0	None	No	0.01	Param.
Beryllium (mg/L)	B-93	0.01693	0.01326	0.004	Yes	9	0.01477	0.003145	0	None	x^4	0.01	Param.
Beryllium (mg/L)	DGWC-10	0.008735	0.006009	0.004	Yes	18	0.007372	0.002253	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-47	0.01205	0.008993	0.004	Yes	19	0.01052	0.002609	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-48	0.0088	0.007242	0.004	Yes	19	0.008021	0.001331	0	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-5	0.008753	0.006725	0.004	Yes	18	0.007739	0.001675	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	0.1915	0.1177	0.032	Yes	8	0.155	0.03742	0	None	x^2	0.01	Param.
Cobalt (mg/L)	B-56	0.05661	0.04339	0.032	Yes	8	0.05	0.006234	0	None	No	0.01	Param.
Cobalt (mg/L)	B-63	0.04999	0.03545	0.032	Yes	9	0.04272	0.00753	0	None	No	0.01	Param.
Cobalt (mg/L)	B-92	0.09426	0.03414	0.032	Yes	5	0.0642	0.01794	0	None	No	0.01	Param.
Cobalt (mg/L)	B-93	0.06738	0.05571	0.032	Yes	9	0.06111	0.008253	0	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-10	0.193	0.086	0.032	Yes	18	0.1403	0.05094	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-19	0.0533	0.04998	0.032	Yes	19	0.05164	0.002838	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-20	0.7547	0.506	0.032	Yes	19	0.6559	0.2549	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	DGWC-47	0.3539	0.2388	0.032	Yes	19	0.2964	0.09827	0	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-48	0.4783	0.3733	0.032	Yes	19	0.4258	0.08964	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	16.21	10.3	5	Yes	8	13.25	2.789	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	10.51	5.024	5	Yes	8	7.765	2.586	0	None	No	0.01	Param.
Lithium (mg/L)	B-120D	0.0928	0.0512	0.04	Yes	6	0.072	0.01514	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-47	0.07036	0.05388	0.04	Yes	19	0.06212	0.01407	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-48	0.122	0.1033	0.04	Yes	19	0.1127	0.01596	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 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	8	0.002625	0.0007025	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-101D	0.001684	0.0004313	0.006	No	7	0.001873	0.001146	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.0016	0.006	No	8	0.002825	0.000495	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00048	0.006	No	8	0.00188	0.001205	50	None	No	0.004	NP (normality)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	7	0.00264	0.0009525	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	8	0.002525	0.0009192	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	6	0.002548	0.001106	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	8	0.002763	0.0006718	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.003	0.006	No	11	0.002769	0.0007658	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	8	0.002708	0.0008273	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00043	0.006	No	10	0.002242	0.001222	70	None	No	0.011	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	8	0.002358	0.0008999	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	5	0.0026	0.0008944	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	18	0.00295	0.0002121	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	20	0.002865	0.0006037	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	19	0.002795	0.0006151	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	19	0.00274	0.0007816	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	19	0.002866	0.000585	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.0013	0.006	No	19	0.002772	0.0007019	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	19	0.002874	0.0005506	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-20	0.003	0.0018	0.006	No	19	0.002937	0.0002753	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	19	0.002879	0.0005277	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0008	0.006	No	18	0.002604	0.0009131	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	19	0.002905	0.0004129	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	19	0.002799	0.000645	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	18	0.002768	0.0007055	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	18	0.002859	0.0005987	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	7	0.004529	0.001247	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.0019	0.01	No	8	0.004112	0.001299	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	8	0.00405	0.001327	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	6	0.004433	0.001388	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	B-56	0.004783	0.002792	0.01	No	8	0.003787	0.0009387	12.5	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.005	0.01	No	11	0.004845	0.0005126	90.91	None	No	0.006	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	8	0.00465	0.0009899	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	10	0.00374	0.001366	50	None	No	0.011	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.004	0.01	No	10	0.0047	0.0006749	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.0014	0.01	No	9	0.0046	0.0012	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-92	0.002445	0.0008887	0.01	No	5	0.003	0.001869	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	B-93	0.005	0.0013	0.01	No	8	0.0036	0.001565	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	5	0.00428	0.00161	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.006468	0.003499	0.01	No	18	0.004983	0.002453	5.556	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	20	0.004561	0.00135	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	19	0.004757	0.001058	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	19	0.004344	0.001561	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0011	0.01	No	19	0.003544	0.001967	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.005	0.0013	0.01	No	19	0.002692	0.001723	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	19	0.004515	0.001182	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-20	0.01828	0.009528	0.01	No	19	0.01391	0.007476	0	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	18	0.00405	0.001833	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	19	0.004568	0.001294	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.005	0.0013	0.01	No	19	0.003053	0.0016	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	DGWC-48	0.005	0.0012	0.01	No	19	0.003584	0.001921	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.007316	0.002552	0.01	No	18	0.007361	0.008981	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0015	0.01	No	18	0.003981	0.001703	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-9**	**0.02771**	**0.01603**	**0.01**	**Yes**	**18**	**0.02187**	**0.009656**	**5.556**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.098	0.015	2	No	8	0.03038	0.02743	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-101D	0.07849	0.05408	2	No	7	0.06629	0.01027	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.02288	0.01912	2	No	8	0.021	0.001773	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-104D	0.02433	0.01867	2	No	8	0.0215	0.002673	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02261	0.01996	2	No	7	0.02129	0.001113	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1232	0.04279	2	No	7	0.083	0.03385	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06338	0.05034	2	No	7	0.05686	0.00549	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.043	0.027	2	No	8	0.0325	0.006256	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-120D	0.03944	0.01721	2	No	6	0.0275	0.008894	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	B-56	0.02952	0.02623	2	No	8	0.02788	0.001553	0	None	No	0.01	Param.
Barium (mg/L)	B-62	0.02504	0.01841	2	No	11	0.02173	0.003977	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.056	0.02	2	No	8	0.02863	0.01178	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-66	0.02427	0.01598	2	No	8	0.02013	0.003907	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1222	0.09683	2	No	10	0.1095	0.0142	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02828	0.02127	2	No	9	0.02478	0.003632	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.056	0.024	2	No	9	0.03111	0.009968	0	None	No	0.002	NP (normality)
Barium (mg/L)	B-88	0.022	0.016	2	No	8	0.01863	0.002615	0	None	No	0.004	NP (normality)
Barium (mg/L)	B-92	0.01769	0.01271	2	No	5	0.0152	0.001483	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01895	0.0148	2	No	8	0.01688	0.001959	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.021	0.02	2	No	5	0.0202	0.0004472	0	None	No	0.031	NP (normality)
Barium (mg/L)	B-98	0.092	0.035	2	No	5	0.0602	0.02537	0	None	No	0.031	NP (selected)
Barium (mg/L)	DGWC-10	0.02789	0.02185	2	No	18	0.02487	0.004989	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06356	0.05048	2	No	18	0.05702	0.0108	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.0375	0.02607	2	No	20	0.03229	0.01076	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.0318	0.02575	2	No	18	0.02817	0.00679	5.556	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-14	0.06226	0.05823	2	No	19	0.06024	0.003444	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04904	0.04251	2	No	19	0.04577	0.005575	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05232	0.03791	2	No	19	0.04512	0.01231	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02541	0.02237	2	No	19	0.02389	0.002596	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.023	0.0206	2	No	19	0.02184	0.001119	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-20	0.01595	0.01059	2	No	19	0.01327	0.004573	5.263	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	19	0.02555	0.00156	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03621	0.03079	2	No	19	0.0335	0.004632	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02331	0.01914	2	No	19	0.02132	0.003733	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-4	0.03561	0.03257	2	No	18	0.03409	0.002514	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01933	0.01582	2	No	19	0.01765	0.003134	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.02005	0.01667	2	No	19	0.01836	0.002888	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.015	0.013	2	No	19	0.01374	0.0009657	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-5	0.01826	0.01673	2	No	17	0.01749	0.001218	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03509	0.0248	2	No	18	0.02994	0.008498	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	0.0005753	0.0003347	0.004	No	8	0.000455	0.0001135	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.00025	0.000047	0.004	No	7	0.00009129	0.00007062	14.29	None	No	0.008	NP (normality)
Beryllium (mg/L)	B-102D	0.001319	0.0008688	0.004	No	8	0.001094	0.0002123	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001596	0.001204	0.004	No	8	0.0014	0.0001852	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001356	0.00007864	0.004	No	7	0.0001071	0.000024	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	7	0.0004357	0.0001701	85.71	None	No	0.008	NP (NDs)
Beryllium (mg/L)	B-120D	0.001164	0.0006956	0.004	No	6	0.00093	0.0001706	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.0013	0.0011	0.004	No	8	0.001225	0.00007071	0	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-62	0.0025	0.00009	0.004	No	12	0.0005148	0.0009275	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-63	0.00053	0.0003	0.004	No	10	0.000511	0.0003579	10	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-77	0.0005	0.000057	0.004	No	10	0.000299	0.0002136	50	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-82	0.001942	0.001346	0.004	No	9	0.001644	0.0003087	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.0007	0.00028	0.004	No	9	0.0004011	0.0001236	0	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-88	0.002793	0.0007957	0.004	No	8	0.001779	0.001356	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.02032**	**0.0134**	**0.004**	**Yes**	**7**	**0.01686**	**0.002911**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01693**	**0.01326**	**0.004**	**Yes**	**9**	**0.01477**	**0.003145**	**0**	**None**	**x^4**	**0.01**	**Param.**
Beryllium (mg/L)	B-97	0.00185	0.00155	0.004	No	8	0.0017	0.0001414	12.5	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	8	0.0004375	0.000263	62.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	**DGWC-10**	**0.008735**	**0.006009**	**0.004**	**Yes**	**18**	**0.007372**	**0.002253**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.003	0.00014	0.004	No	18	0.001262	0.001427	38.89	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00028	0.00011	0.004	No	20	0.0003579	0.0006359	15	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.003	0.00007	0.004	No	18	0.001538	0.001504	50	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	19	0.0005936	0.0005943	89.47	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00066	0.00051	0.004	No	19	0.0006758	0.0002959	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001963	0.001721	0.004	No	19	0.001842	0.0002063	10.53	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005571	0.002976	0.004	No	19	0.004274	0.002215	10.53	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	19	0.0003053	0.0004223	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00013	0.004	No	19	0.0003016	0.0004238	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	19	0.0005437	0.0003494	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00034	0.0002	0.004	No	18	0.0003828	0.0004137	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.002654	0.002125	0.004	No	19	0.002389	0.000452	5.263	None	No	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01205**	**0.008993**	**0.004**	**Yes**	**19**	**0.01052**	**0.002609**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.0088**	**0.007242**	**0.004**	**Yes**	**19**	**0.008021**	**0.001331**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.008753**	**0.006725**	**0.004**	**Yes**	**18**	**0.007739**	**0.001675**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002579	0.001368	0.004	No	18	0.002049	0.001105	5.556	None	sqrt(x)	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.**
Cadmium (mg/L)	B-100	0.00059	0.00025	0.005	No	8	0.00036	0.000145	12.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	7	0.0004443	0.0001474	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	B-102D	0.000906	0.000724	0.005	No	8	0.000815	0.00008586	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.000251	0.0001375	0.005	No	7	0.0003243	0.0001683	42.86	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	B-120D	0.00118	0.0009462	0.005	No	6	0.001063	0.00008524	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.000335	0.000245	0.005	No	8	0.00029	0.00004243	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	8	0.0003563	0.0001593	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	B-66	0.0005	0.00018	0.005	No	8	0.00046	0.0001131	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	B-82	0.0007616	0.0004762	0.005	No	9	0.0006189	0.0001478	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003611	0.00027	0.005	No	9	0.0003156	0.0000472	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.004662	0.0006429	0.005	No	8	0.002653	0.001896	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001638	0.0006262	0.005	No	5	0.001132	0.0003019	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009262	0.0007388	0.005	No	8	0.0008325	0.00008844	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.0006336	0.0005184	0.005	No	5	0.000576	0.00003435	0	None	No	0.01	Param.
Cadmium (mg/L)	B-98	0.000376	0.0001307	0.005	No	5	0.000352	0.0001492	40	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001101	0.0007304	0.005	No	18	0.0009156	0.000306	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00015	0.005	No	18	0.0003811	0.0001732	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003232	0.0002176	0.005	No	20	0.000399	0.0001828	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	18	0.00046	0.0001182	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	19	0.0004437	0.0002118	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.0003	0.00023	0.005	No	19	0.0002874	0.00008465	10.53	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-19	0.0004103	0.0003444	0.005	No	19	0.0003774	0.00005626	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00014	0.005	No	19	0.0003947	0.0002134	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002499	0.001828	0.005	No	19	0.002163	0.0005727	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.0006025	0.000354	0.005	No	19	0.0005784	0.0001936	15.79	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006227	0.000471	0.005	No	19	0.0005468	0.0001295	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003	0.00018	0.005	No	19	0.0002868	0.0002001	15.79	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-4	0.000853	0.0006415	0.005	No	18	0.0007472	0.0001748	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0008851	0.0004782	0.005	No	19	0.0007553	0.000504	10.53	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.00201	0.001236	0.005	No	19	0.001623	0.0006609	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.0036	0.0026	0.005	No	19	0.003337	0.001533	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-5	0.0008886	0.0005114	0.005	No	18	0.0007	0.0003116	11.11	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002362	0.00169	0.005	No	18	0.002026	0.0005554	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	8	0.003939	0.001968	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	7	0.004486	0.001361	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	8	0.004512	0.001379	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	7	0.004471	0.001398	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	8	0.003549	0.002018	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.005	0.1	No	11	0.004635	0.001212	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	8	0.003992	0.001874	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.0007	0.1	No	10	0.003446	0.002043	60	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0011	0.1	No	9	0.004156	0.001676	77.78	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-83	0.004633	0.002056	0.1	No	9	0.003344	0.001334	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	8	0.003619	0.00192	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	8	0.003416	0.002191	62.5	None	No	0.004	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	5	0.00354	0.001999	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	DGWC-10	0.005	0.0008	0.1	No	18	0.002306	0.001973	33.33	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	18	0.004022	0.001883	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	20	0.004596	0.001242	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	18	0.004049	0.001831	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	19	0.004544	0.002128	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0033	0.0025	0.1	No	19	0.002958	0.0007897	10.53	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.0031	0.0023	0.1	No	19	0.003732	0.002804	15.79	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.00064	0.1	No	19	0.003588	0.002136	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.005	0.0016	0.1	No	19	0.003179	0.00219	31.58	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-21	0.005	0.0006	0.1	No	19	0.003682	0.002019	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	19	0.002779	0.002176	47.37	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	18	0.00475	0.001061	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.0008	0.1	No	19	0.003486	0.002065	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	19	0.004774	0.0009865	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	19	0.004532	0.001404	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	18	0.004747	0.001072	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-8	0.005	0.0013	0.1	No	18	0.003748	0.001881	66.67	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	0.07002	0.01754	0.032	No	10	0.04435	0.02859	10	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-101D	0.003522	0.002307	0.032	No	7	0.002914	0.0005113	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01471	0.01104	0.032	No	8	0.01288	0.001727	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.1915**	**0.1177**	**0.032**	**Yes**	**8**	**0.155**	**0.03742**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.005	0.00056	0.032	No	7	0.003161	0.002295	57.14	None	No	0.008	NP (NDs)
Cobalt (mg/L)	B-107D	0.001426	0.0005509	0.032	No	7	0.0009886	0.0003684	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.0048	0.00045	0.032	No	7	0.001609	0.001488	0	None	No	0.008	NP (selected)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.032	No	8	0.002224	0.002302	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-120D	0.017	0.0022	0.032	No	6	0.005733	0.005668	0	None	No	0.0155	NP (selected)
Cobalt (mg/L)	**B-56**	**0.05661**	**0.04339**	**0.032**	**Yes**	**8**	**0.05**	**0.006234**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.005	0.00031	0.032	No	12	0.004217	0.001828	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.04999**	**0.03545**	**0.032**	**Yes**	**9**	**0.04272**	**0.00753**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.01571	0.006605	0.032	No	9	0.01116	0.004714	11.11	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.005	0.0011	0.032	No	10	0.00334	0.001877	50	None	No	0.011	NP (normality)
Cobalt (mg/L)	B-82	0.005192	0.0018	0.032	No	10	0.003525	0.002207	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01713	0.00891	0.032	No	9	0.01302	0.004259	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.022	0.00135	0.032	No	9	0.006317	0.007864	0	None	No	0.002	NP (normality)
Cobalt (mg/L)	**B-92**	**0.09426**	**0.03414**	**0.032**	**Yes**	**5**	**0.0642**	**0.01794**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06738**	**0.05571**	**0.032**	**Yes**	**9**	**0.06111**	**0.008253**	**0**	**None**	**x^4**	**0.01**	**Param.**
Cobalt (mg/L)	B-97	0.0033	0.0029	0.032	No	5	0.00302	0.0001643	0	None	No	0.031	NP (normality)
Cobalt (mg/L)	B-98	0.005	0.00063	0.032	No	7	0.004347	0.001641	71.43	None	No	0.008	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.086**	**0.032**	**Yes**	**18**	**0.1403**	**0.05094**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.032	No	18	0.003924	0.004428	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01387	0.004433	0.032	No	20	0.01042	0.00976	10	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.032	No	18	0.004238	0.001754	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0028	0.0016	0.032	No	19	0.003363	0.005323	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02561	0.01848	0.032	No	19	0.02205	0.006093	5.263	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.0533**	**0.04998**	**0.032**	**Yes**	**19**	**0.05164**	**0.002838**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.01871	0.006293	0.032	No	19	0.01451	0.0119	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.7547**	**0.506**	**0.032**	**Yes**	**19**	**0.6559**	**0.2549**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009608	0.008469	0.032	No	19	0.008737	0.001529	10.53	None	x^5	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009524	0.007423	0.032	No	19	0.008474	0.001794	10.53	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00043	0.032	No	19	0.002892	0.002826	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.002	0.0017	0.032	No	18	0.002117	0.001065	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.03424	0.01286	0.032	No	19	0.02581	0.02042	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.3539**	**0.2388**	**0.032**	**Yes**	**19**	**0.2964**	**0.09827**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4783**	**0.3733**	**0.032**	**Yes**	**19**	**0.4258**	**0.08964**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.0351	0.02	0.032	No	18	0.02668	0.01021	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-8	0.07529	0.03046	0.032	No	18	0.05288	0.03705	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.**

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	B-100	1.134	0.3305	5	No	8	0.7325	0.3792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.211	0.8531	5	No	7	1.532	0.5718	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.74	0.61	5	No	8	0.9435	0.4151	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**16.21**	**10.3**	**5**	**Yes**	**8**	**13.25**	**2.789**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	0.8362	0.4835	5	No	7	0.6599	0.1484	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.766	0.43	5	No	7	1.098	0.5624	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.7	0.7324	5	No	7	1.216	0.4074	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-111D**	**10.51**	**5.024**	**5**	**Yes**	**8**	**7.765**	**2.586**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-120D	3.68	1.21	5	No	6	2.162	0.8412	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-56	1.203	0.7613	5	No	8	0.982	0.2082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	1.992	1.426	5	No	10	1.709	0.3175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	1.919	0.811	5	No	7	1.365	0.4663	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.07	0	5	No	7	0.6854	0.3655	0	None	No	0.008	NP (selected)
Combined Radium 226 + 228 (pCi/L)	B-77	1.854	0.7112	5	No	9	1.279	0.6205	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.9082	0.362	5	No	8	0.6351	0.2576	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	0.958	0.1907	5	No	9	0.5743	0.3973	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.34	0.751	5	No	8	1.546	0.7498	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.48	0.8997	5	No	5	1.69	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.67	0.8134	5	No	8	1.242	0.4041	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	2.123	0.7089	5	No	5	1.416	0.422	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.2	0.52	5	No	5	1.369	0.7274	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.435	1.09	5	No	19	1.262	0.2943	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.207	0.7176	5	No	19	0.9624	0.4181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.155	0.4803	5	No	19	0.8819	0.638	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.375	0.9148	5	No	19	1.145	0.3933	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	1.015	0.6444	5	No	19	0.8299	0.3168	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.35	0.5899	5	No	19	1.038	0.7914	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.9891	0.6087	5	No	19	0.7989	0.3249	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	0.9779	0.5263	5	No	19	0.7521	0.3855	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.307	0.8037	5	No	19	1.056	0.43	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.528	0.9693	5	No	19	1.248	0.4766	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	1.012	0.5623	5	No	19	0.7871	0.3838	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.245	0.7119	5	No	19	0.9786	0.4556	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.416	0.8462	5	No	19	1.131	0.4867	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.634	1.185	5	No	19	1.41	0.3835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.142	0.6804	5	No	19	0.9112	0.3942	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.685	1.726	5	No	19	2.206	0.8183	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.252	1.449	5	No	19	1.85	0.6857	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.675	1.002	5	No	19	1.339	0.5749	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8071	0.511	5	No	19	0.6591	0.2529	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.38	0.9599	5	No	18	1.17	0.3469	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.052	4	No	8	0.0905	0.01838	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	7	0.08071	0.02712	28.57	None	No	0.008	NP (selected)
Fluoride (mg/L)	B-102D	0.107	0.07101	4	No	8	0.089	0.01697	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.4391	0.2884	4	No	8	0.3638	0.0711	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07371	0.04715	4	No	7	0.06043	0.01118	14.29	None	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	7	0.09329	0.01776	85.71	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-108D	0.1	0.061	4	No	7	0.09443	0.01474	85.71	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-111D	0.57	0.32	4	No	8	0.4013	0.08967	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	6	0.08483	0.02355	66.67	None	No	0.0155	NP (NDs)
Fluoride (mg/L)	B-56	0.2819	0.1401	4	No	8	0.211	0.06691	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.23	0.099	4	No	10	0.1632	0.1017	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	B-63	0.45	0.12	4	No	7	0.1886	0.1187	0	None	No	0.008	NP (normality)
Fluoride (mg/L)	B-66	0.3829	0.08636	4	No	7	0.2243	0.1426	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-77	0.1	0.069	4	No	9	0.088	0.01381	44.44	None	No	0.002	NP (normality)
Fluoride (mg/L)	B-82	0.1346	0.05246	4	No	8	0.1034	0.04301	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	B-83	0.1074	0.05862	4	No	9	0.08944	0.0258	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.054	4	No	8	0.09425	0.01626	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride (mg/L)	B-92	0.316	0.156	4	No	5	0.236	0.04775	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.4032	0.2893	4	No	8	0.3463	0.0537	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	B-97	0.1437	0.06902	4	No	5	0.1016	0.02388	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	B-98	0.2125	0.06674	4	No	5	0.1396	0.04348	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.769	1.302	4	No	20	1.536	0.4118	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	19	0.08263	0.02457	63.16	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.1449	0.06163	4	No	20	0.1471	0.1312	30	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-13	0.1547	0.07987	4	No	19	0.132	0.09503	5.263	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.06	4	No	20	0.085	0.02507	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.079	4	No	20	0.1008	0.04067	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.2118	0.0951	4	No	20	0.183	0.1445	15	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.4074	0.1668	4	No	20	0.326	0.2917	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.28	0.06	4	No	20	0.1309	0.1432	35	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	1.019	0.5046	4	No	20	0.762	0.4533	5	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No	20	0.1006	0.06128	55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.1021	0.054	4	No	20	0.1088	0.06196	45	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-23	0.1789	0.08621	4	No	20	0.1575	0.1414	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.096	4	No	20	0.127	0.1591	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	20	0.094	0.01957	90	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.024	0.5131	4	No	20	0.7685	0.4497	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	1.013	0.5653	4	No	20	0.821	0.4283	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	1	0.15	4	No	19	0.4826	0.4359	5.263	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-8	0.2558	0.0913	4	No	19	0.2474	0.2208	15.79	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	8	0.0006848	0.0004364	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	7	0.0008664	0.0003534	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	8	0.0006433	0.0004924	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	8	0.0008814	0.0003355	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	7	0.0008634	0.0003613	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-108D	0.0025	0.001	0.015	No	7	0.001214	0.0005669	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	8	0.0007636	0.0004377	75	None	No	0.004	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	6	0.000865	0.0003307	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	8	0.0006764	0.0004483	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	8	0.000765	0.0004352	75	None	No	0.004	NP (NDs)
Lead (mg/L)	B-77	0.001	0.00029	0.015	No	10	0.000842	0.0004347	60	None	No	0.011	NP (NDs)
Lead (mg/L)	B-82	0.001	0.000059	0.015	No	9	0.0007032	0.0004459	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-83	0.001	0.000065	0.015	No	9	0.0006972	0.0004357	55.56	None	No	0.002	NP (NDs)
Lead (mg/L)	B-88	0.012	0.00035	0.015	No	8	0.002408	0.003911	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	8	0.00078	0.0004074	75	None	No	0.004	NP (NDs)
Lead (mg/L)	DGWC-10	0.01	0.00013	0.015	No	18	0.00671	0.004788	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00012	0.015	No	18	0.0007499	0.0004153	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	20	0.0009105	0.0002755	90	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	18	0.0009054	0.0002758	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	19	0.0008538	0.0003469	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.0012	0.0002	0.015	No	19	0.0007758	0.0004132	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.0001	0.015	No	19	0.0006733	0.00044	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00016	0.015	No	19	0.0007678	0.0004016	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.00009	0.015	No	19	0.0006176	0.000461	57.89	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.1	0.00044	0.015	No	19	0.06852	0.0476	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.00015	0.015	No	19	0.0006982	0.0004113	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	19	0.0009508	0.0002143	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	18	0.0008038	0.0003786	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0004115	0.0001765	0.015	No	19	0.0008105	0.001096	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	19	0.001024	0.0009939	36.84	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.002	0.00093	0.015	No	19	0.001516	0.001073	15.79	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	18	0.0006877	0.0006171	50	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-8	0.001	0.00023	0.015	No	18	0.0007101	0.000395	61.11	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	8	0.003787	0.004548	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	B-101D	0.01476	0.008613	0.04	No	7	0.01169	0.002587	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01432	0.01046	0.04	No	8	0.01239	0.001821	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03987	0.03638	0.04	No	8	0.03813	0.001642	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-106D	0.005696	0.004732	0.04	No	7	0.005214	0.0004059	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.01637	0.01278	0.04	No	7	0.01457	0.001512	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.016	0.014	0.04	No	7	0.01471	0.0009512	0	None	No	0.008	NP (normality)
Lithium (mg/L)	B-111D	0.02727	0.01823	0.04	No	8	0.02275	0.004268	0	None	No	0.01	Param.
Lithium (mg/L)	**B-120D**	**0.0928**	**0.0512**	**0.04**	**Yes**	**6**	**0.072**	**0.01514**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-125D	0.1115	0	0.04	No	4	0.05425	0.0252	0	None	No	0.01	Param.
Lithium (mg/L)	B-56	0.005852	0.005123	0.04	No	8	0.005488	0.0003441	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0078	0.04	No	11	0.01008	0.004977	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	B-63	0.025	0.0045	0.04	No	9	0.008378	0.006279	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-66	0.03	0.00073	0.04	No	8	0.02634	0.01035	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.0011	0.04	No	10	0.01342	0.01431	40	None	No	0.011	NP (normality)
Lithium (mg/L)	B-82	0.015	0.00073	0.04	No	9	0.003159	0.004606	11.11	None	No	0.002	NP (normality)
Lithium (mg/L)	B-83	0.003276	0.001903	0.04	No	9	0.002589	0.0008007	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	B-88	0.01268	0.001639	0.04	No	8	0.007263	0.009062	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01705	0.009152	0.04	No	5	0.0131	0.002356	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.011	0.04	No	8	0.01188	0.000991	0	None	No	0.004	NP (normality)
Lithium (mg/L)	B-97	0.0053	0.00406	0.04	No	5	0.00468	0.0003701	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.001371	0.0008133	0.04	No	5	0.001092	0.0001663	0	None	No	0.01	Param.
Lithium (mg/L)	DGWC-10	0.0053	0.0022	0.04	No	18	0.0064	0.006885	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0027	0.0019	0.04	No	18	0.003478	0.005382	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	20	0.0213	0.01363	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.0029	0.04	No	18	0.005678	0.007037	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0034	0.04	No	19	0.005868	0.005726	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0064	0.0051	0.04	No	18	0.006022	0.0008708	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	19	0.02087	0.01381	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No	19	0.004274	0.005028	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0807	0.022	0.04	No	19	0.04342	0.02901	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.012	0.0021	0.04	No	19	0.007984	0.006547	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-21	0.0063	0.0056	0.04	No	19	0.006958	0.004388	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0044	0.0034	0.04	No	19	0.005032	0.004861	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.014	0.0036	0.04	No	19	0.01045	0.01685	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-4	0.0037	0.0026	0.04	No	18	0.004339	0.005183	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.012	0.0087	0.04	No	19	0.01116	0.003923	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	**DGWC-47**	**0.07036**	**0.05388**	**0.04**	**Yes**	**19**	**0.06212**	**0.01407**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.122**	**0.1033**	**0.04**	**Yes**	**19**	**0.1127**	**0.01596**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.008	0.0046	0.04	No	18	0.007167	0.004789	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0066	0.0039	0.04	No	18	0.006094	0.004873	5.556	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	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	7	0.0002043	0.00004392	71.43	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	8	0.0001849	0.00004278	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	7	0.0001943	0.00001512	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	7	0.0001914	0.00002268	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	8	0.0001867	0.00003748	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-56	0.00034	0.00016	0.002	No	8	0.0002125	0.00005339	75	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-66	0.00029	0.0002	0.002	No	8	0.0002112	0.00003182	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.00011	0.002	No	9	0.00019	0.00003	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	8	0.0001762	0.00004406	75	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-92	0.0001725	0.0001409	0.002	No	5	0.000178	0.00002168	40	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	B-93	0.0002227	0.0001063	0.002	No	8	0.0001885	0.00005161	37.5	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0021	0.00009	0.002	No	18	0.0002789	0.0004573	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.00048	0.00008	0.002	No	18	0.0001928	0.00008877	77.78	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00009	0.002	No	20	0.0001633	0.00006038	70	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	18	0.0001867	0.00003896	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	19	0.0001784	0.00005145	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	19	0.0001926	0.00003212	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000082	0.002	No	19	0.0001498	0.00006038	52.63	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	19	0.0001742	0.00005399	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	19	0.0002038	0.0001151	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	19	0.0001816	0.00004375	84.21	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	DGWC-21	0.0002	0.00008	0.002	No	19	0.0001668	0.0000585	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00011	0.002	No	19	0.0001713	0.00005249	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00014	0.002	No	19	0.0001884	0.00005091	42.11	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	18	0.0002057	0.0001044	72.22	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	19	0.0001916	0.00003671	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	19	0.0001926	0.00003212	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002483	0.0001291	0.002	No	18	0.0001963	0.0001129	11.11	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.00009	0.002	No	18	0.0001567	0.00005886	61.11	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	8	0.0325	0.06364	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	7	0.008886	0.002948	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	8	0.008937	0.003005	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	8	0.006619	0.004668	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-108D	0.01	0.00078	0.1	No	7	0.008683	0.003485	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-111D	0.013	0.0052	0.1	No	8	0.007188	0.002518	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	6	0.008482	0.003719	83.33	None	No	0.0155	NP (NDs)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	8	0.007912	0.003866	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-82	0.01	0.00081	0.1	No	9	0.008979	0.003063	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	8	0.0078	0.004074	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-98	0.01	0.00075	0.1	No	5	0.002898	0.003984	20	None	No	0.031	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.02133	0.0112	0.1	No	18	0.01717	0.009402	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	19	0.004474	0.003876	31.58	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-22	0.01	0.00097	0.1	No	19	0.009525	0.002072	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DGWC-23	0.01051	0.007122	0.1	No	19	0.008816	0.002892	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.006107	0.004359	0.1	No	18	0.005233	0.001445	5.556	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	8	0.004612	0.001096	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	7	0.004729	0.0007181	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0016	0.05	No	8	0.003512	0.001659	50	None	No	0.004	NP (normality)
Selenium (mg/L)	B-108D	0.005	0.0016	0.05	No	7	0.004514	0.001285	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	8	0.00465	0.0009899	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-120D	0.00547	0.001163	0.05	No	6	0.003317	0.001568	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.029	0.0066	0.05	No	8	0.01241	0.006956	0	None	No	0.004	NP (normality)
Selenium (mg/L)	B-77	0.005	0.005	0.05	No	10	0.00467	0.001044	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0016	0.05	No	9	0.003333	0.001599	44.44	None	No	0.002	NP (normality)
Selenium (mg/L)	B-83	0.02598	0.01474	0.05	No	9	0.02036	0.005821	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003118	0.001882	0.05	No	8	0.0025	0.0005831	12.5	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01261	0.001827	0.05	No	5	0.00722	0.003218	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.02241	0.005907	0.05	No	8	0.01386	0.009758	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-97	0.004145	0.001375	0.05	No	5	0.00276	0.0008264	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	5	0.00466	0.0007603	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	DGWC-10	0.04655	0.0216	0.05	No	18	0.03407	0.02062	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	20	0.004145	0.002061	65	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.00421	0.002216	0.05	No	18	0.004822	0.002889	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	19	0.003837	0.002253	57.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	19	0.005095	0.001396	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008513	0.006353	0.05	No	19	0.007595	0.002204	10.53	None	ln(x)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.007927	0.005158	0.05	No	19	0.006542	0.002364	10.53	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.0051	0.0037	0.05	No	19	0.004695	0.001819	42.11	None	No	0.01	NP (normality)
Selenium (mg/L)	DGWC-20	0.0734	0.03809	0.05	No	19	0.05575	0.03015	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	19	0.004826	0.0007571	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	18	0.0048	0.0008485	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.009789	0.003722	0.05	No	19	0.007389	0.005849	10.53	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.00607	0.002576	0.05	No	19	0.005484	0.00304	26.32	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03402	0.007935	0.05	No	18	0.02699	0.03855	5.556	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	18	0.004678	0.001883	61.11	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-104D	0.001	0.00028	0.002	No	8	0.00091	0.0002546	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-56	0.0002928	0.0001922	0.002	No	8	0.0002425	0.00004743	0	None	No	0.01	Param.
Thallium (mg/L)	B-66	0.001	0.00021	0.002	No	8	0.0009013	0.0002793	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-82	0.001	0.000099	0.002	No	9	0.000801	0.0003949	77.78	None	No	0.002	NP (NDs)

Confidence Intervals - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	B-83	0.001	0.000072	0.002	No	9	0.0008969	0.0003093	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	8	0.0009	0.0002828	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	5	0.000682	0.0004355	60	None	No	0.031	NP (NDs)
Thallium (mg/L)	DGWC-10	0.001	0.00036	0.002	No	18	0.002567	0.004091	27.78	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000091	0.002	No	20	0.0006439	0.0004483	60	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-14	0.001	0.00056	0.002	No	19	0.0009768	0.0001009	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00017	0.002	No	19	0.0005247	0.0004167	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.0005534	0.0004903	0.002	No	19	0.00052	0.00005588	5.263	None	x^2	0.01	Param.
Thallium (mg/L)	DGWC-20	0.1	0.0006	0.002	No	19	0.02705	0.04479	31.58	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	19	0.0007544	0.0004222	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	18	0.0009485	0.0002185	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	19	0.0007694	0.0003986	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	19	0.0002721	0.00009437	10.53	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	19	0.0007582	0.0004157	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	18	0.0008522	0.000341	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.00019	0.002	No	18	0.0004794	0.0003817	33.33	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)

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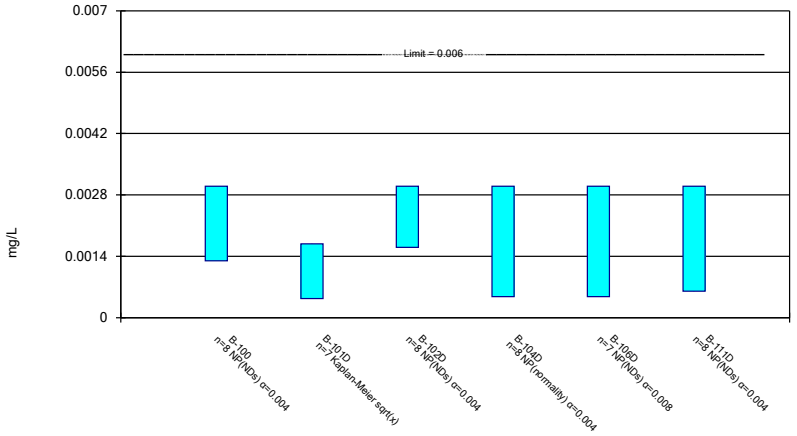
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 1/16/2024 2:16 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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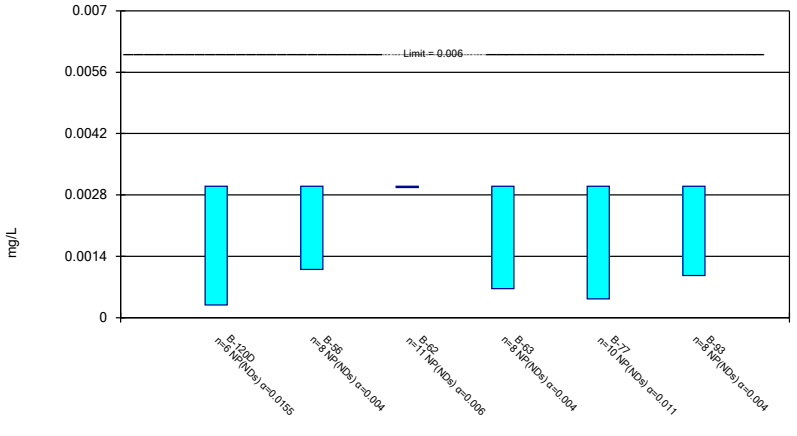
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



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Plant McDonough Client: Southern Company Data: McDonough AP

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Non-Parametric Confidence Interval

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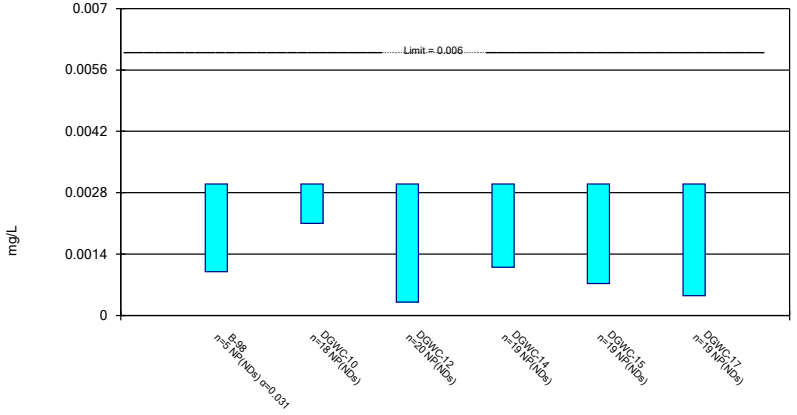

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Non-Parametric Confidence Interval

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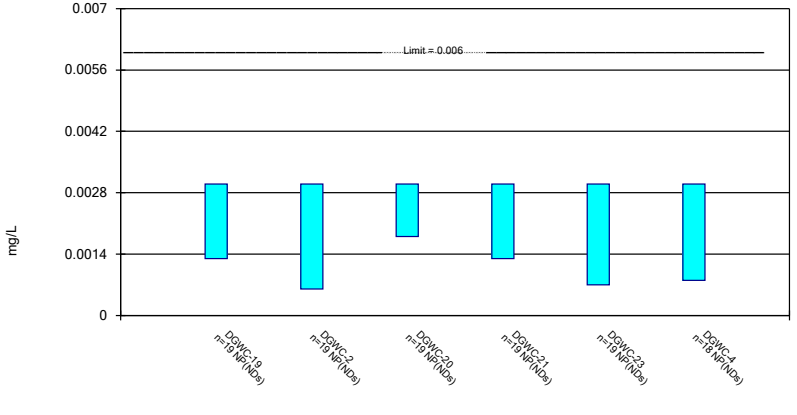

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Non-Parametric Confidence Interval

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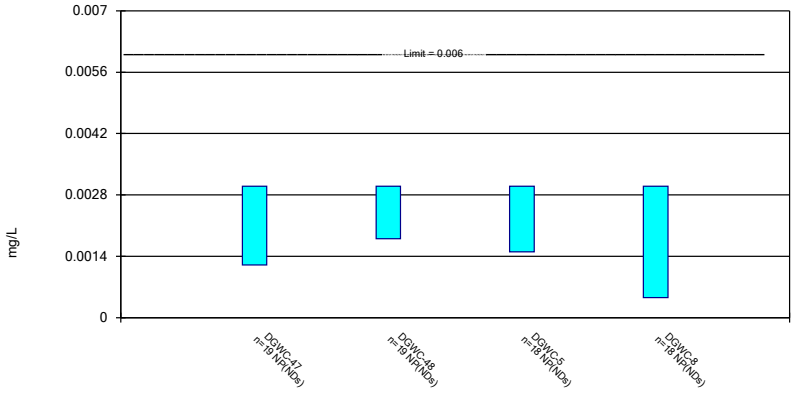

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Plant McDonough Client: Southern Company Data: McDonough AP

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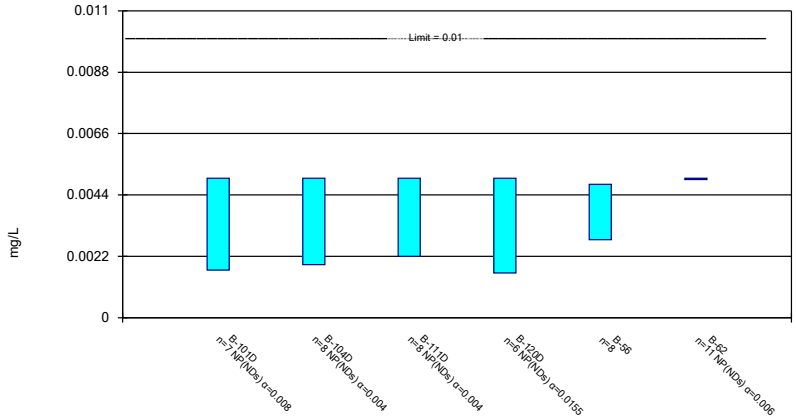
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Parametric and Non-Parametric (NP) Confidence Interval

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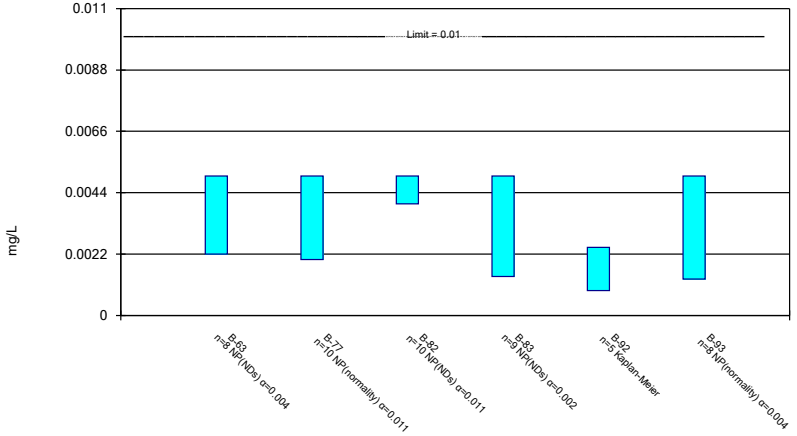

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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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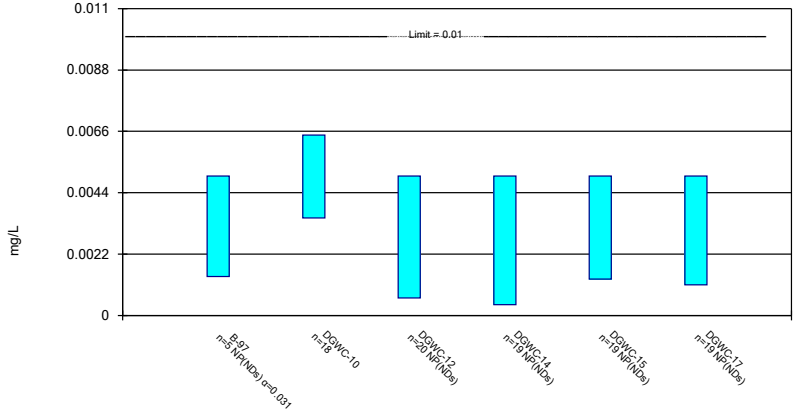

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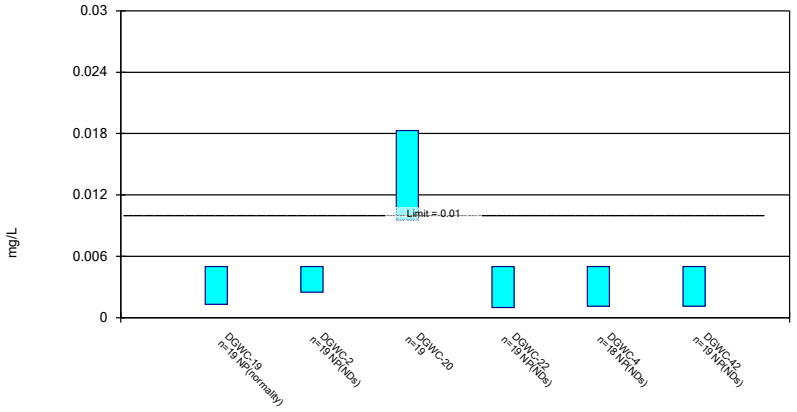

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Parametric and Non-Parametric (NP) Confidence Interval

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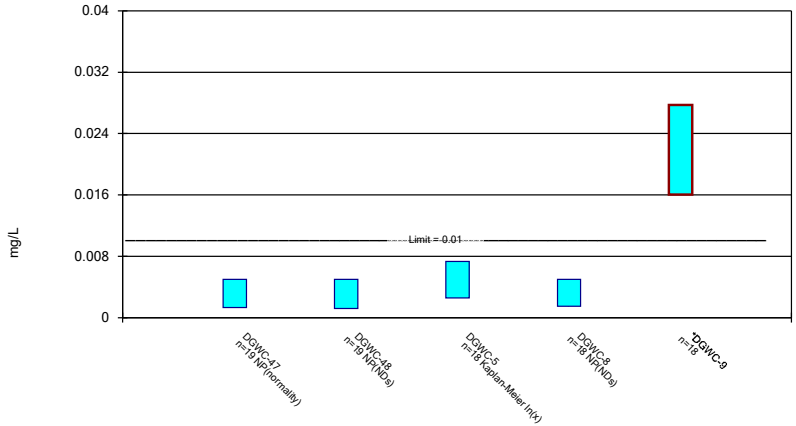

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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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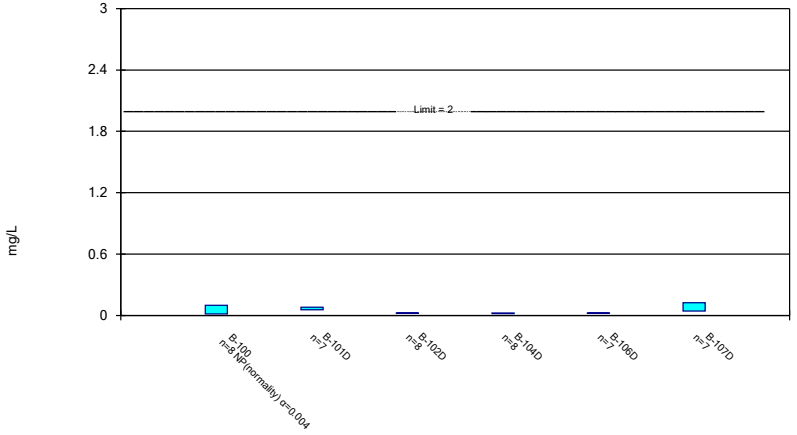

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Plant McDonough Client: Southern Company Data: McDonough AP

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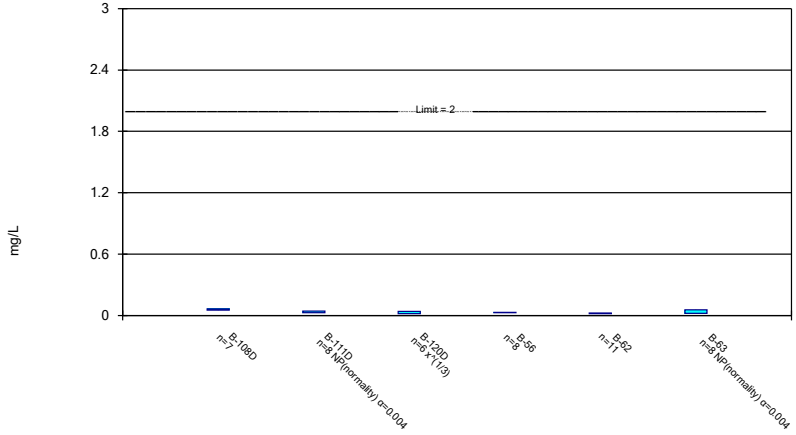

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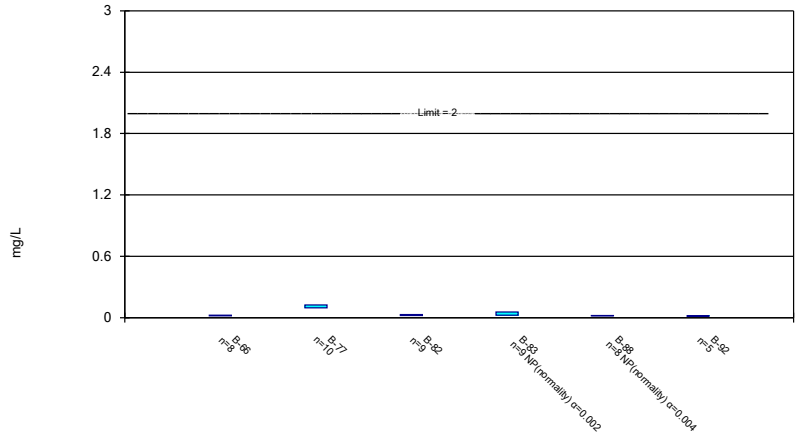

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Plant McDonough Client: Southern Company Data: McDonough AP

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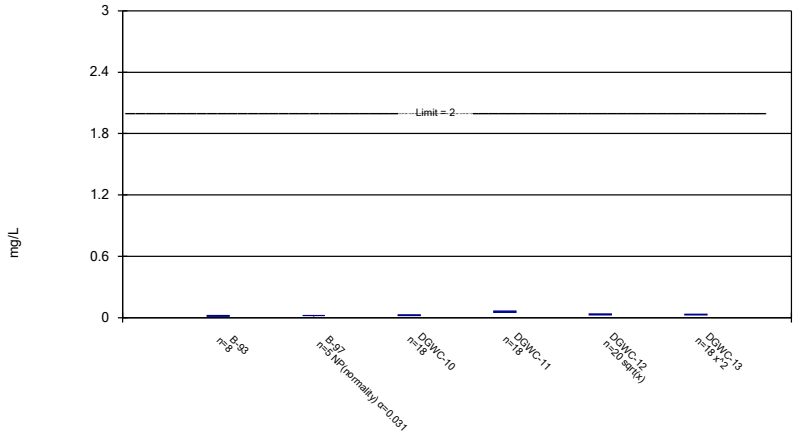

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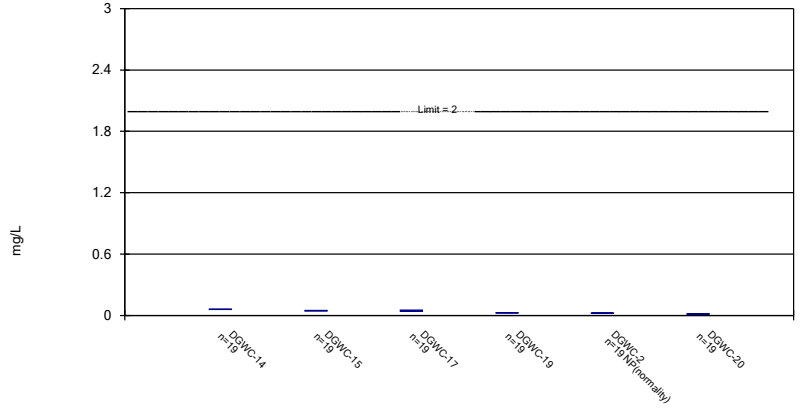

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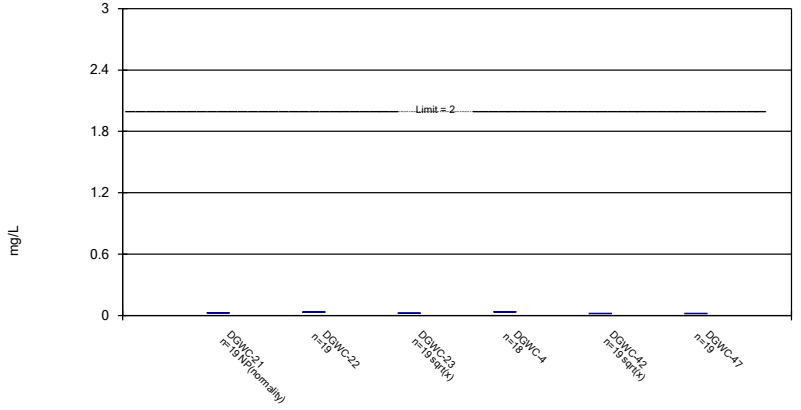

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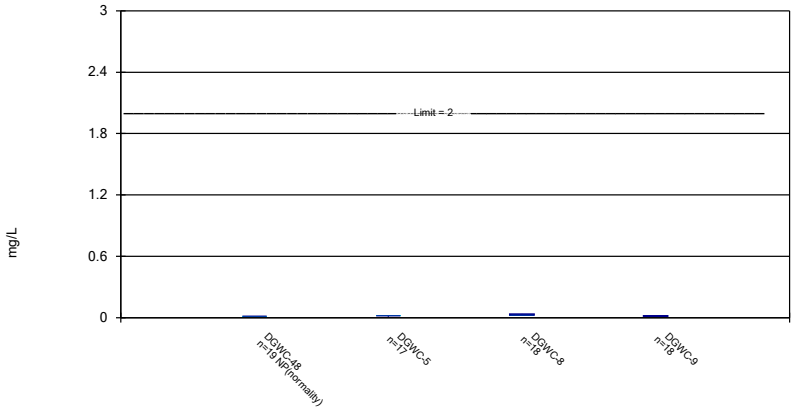

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Parametric and Non-Parametric (NP) Confidence Interval

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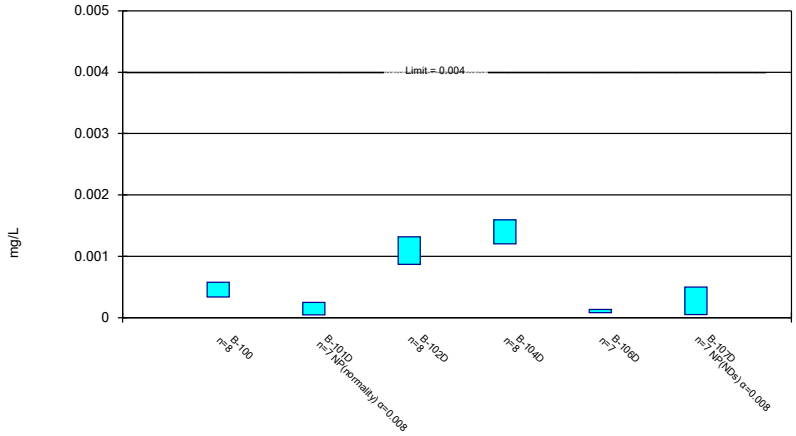

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Plant McDonough Client: Southern Company Data: McDonough AP

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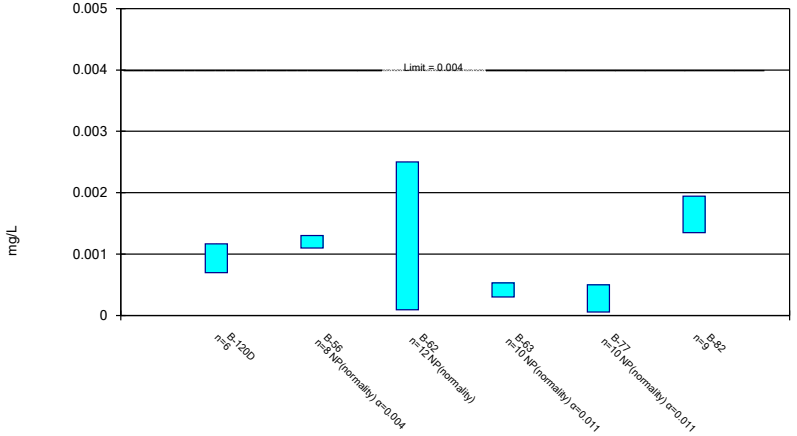
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Parametric and Non-Parametric (NP) Confidence Interval

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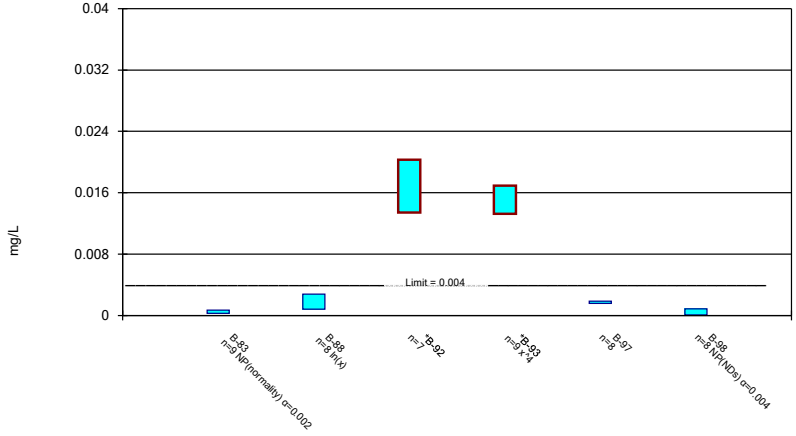

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Parametric and Non-Parametric (NP) Confidence Interval

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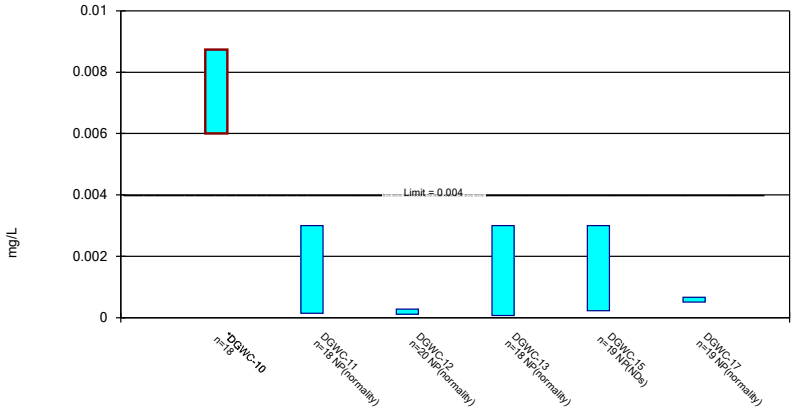

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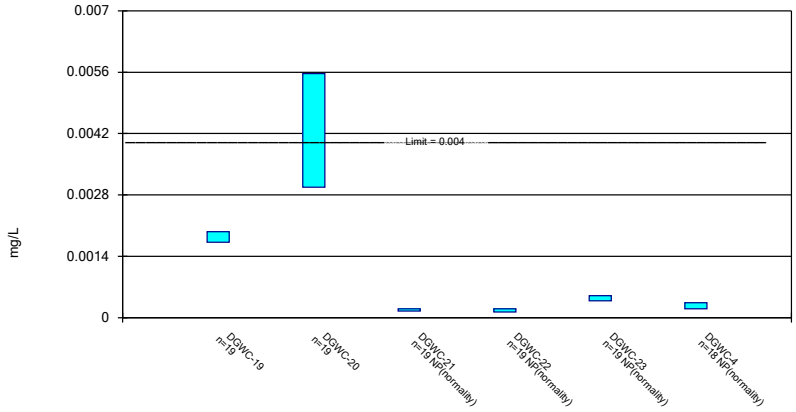

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Parametric Confidence Interval

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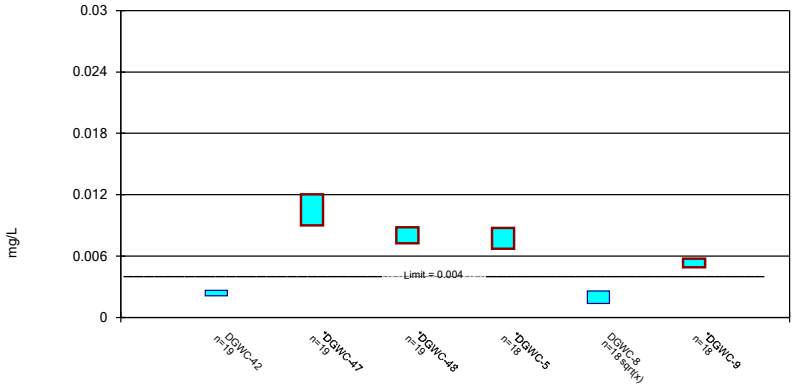

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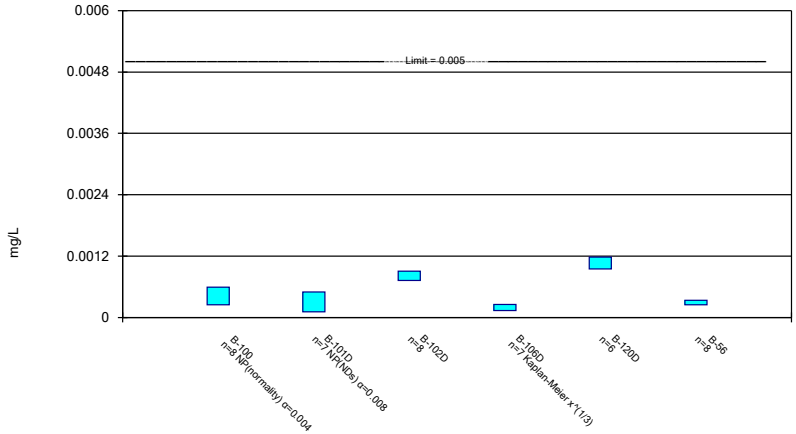
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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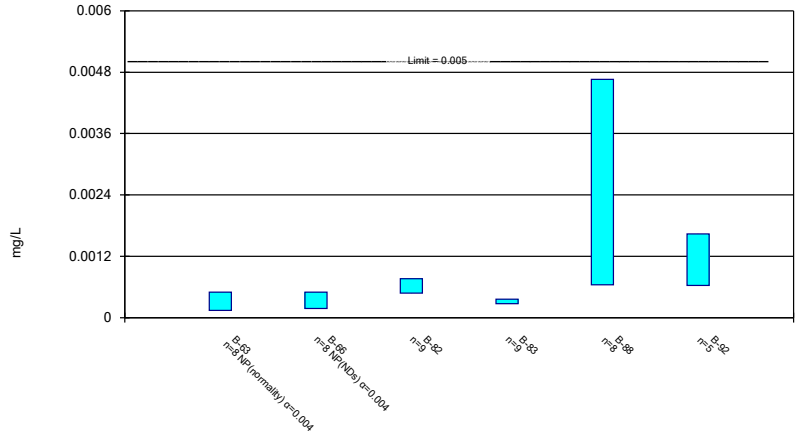
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Parametric and Non-Parametric (NP) Confidence Interval

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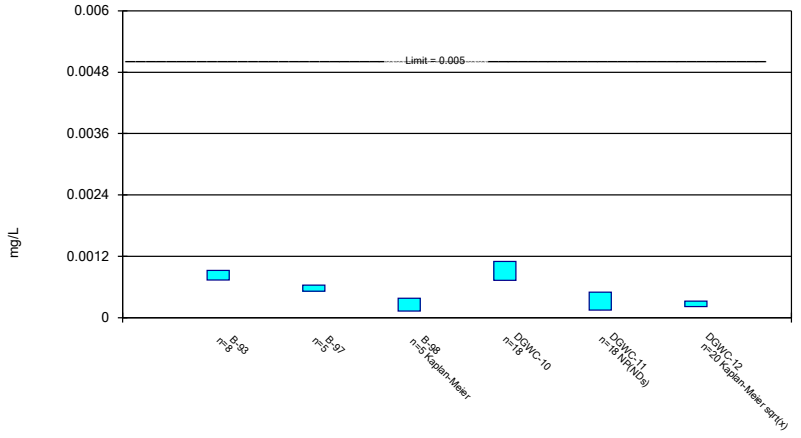

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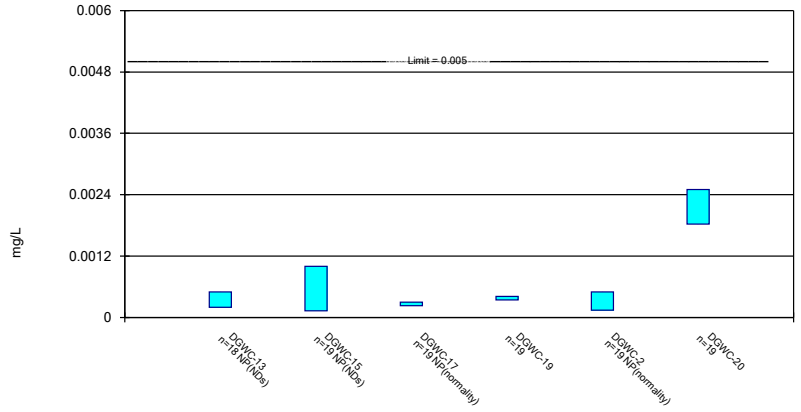

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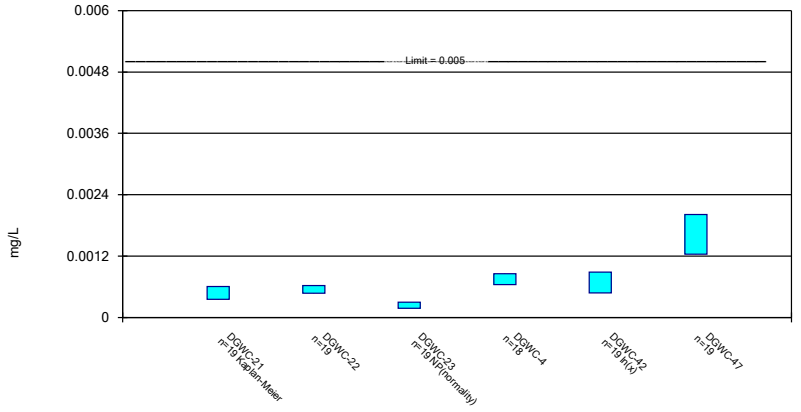

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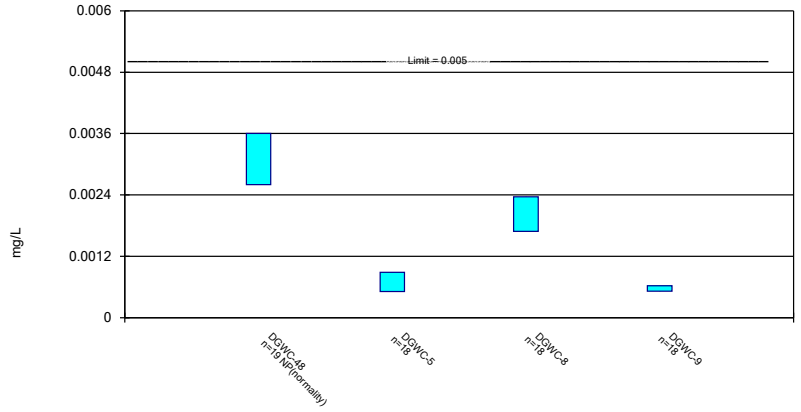

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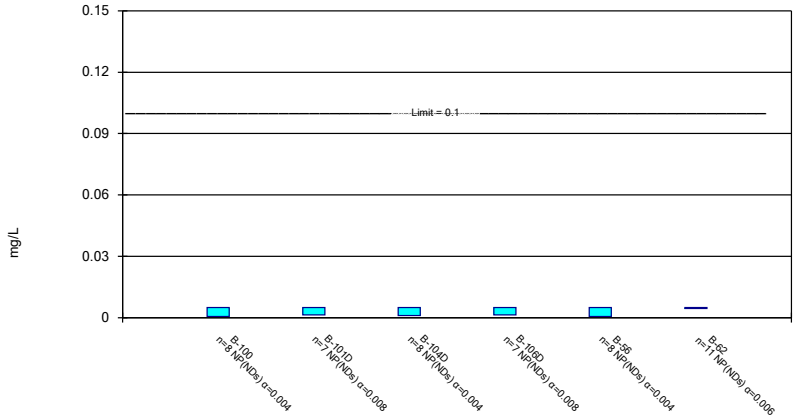
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



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Plant McDonough Client: Southern Company Data: McDonough AP

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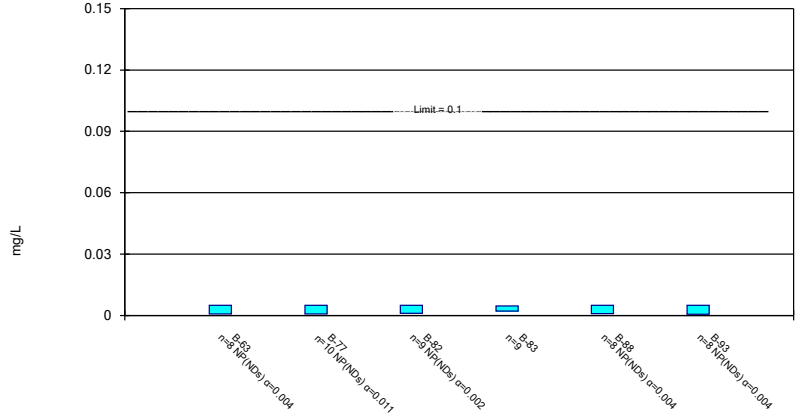
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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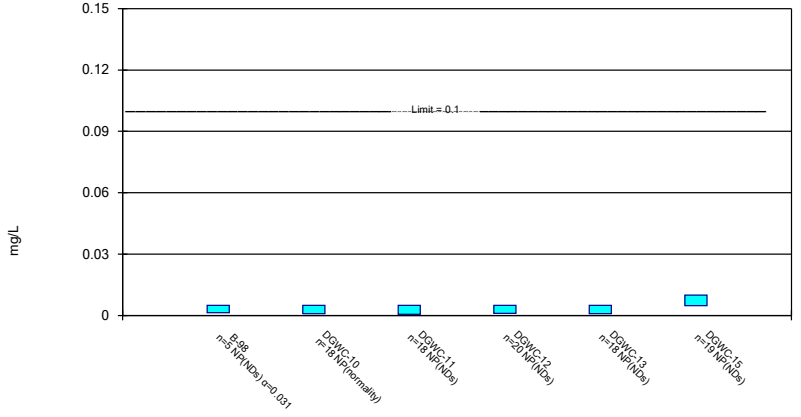
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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Plant McDonough Client: Southern Company Data: McDonough AP

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Non-Parametric Confidence Interval

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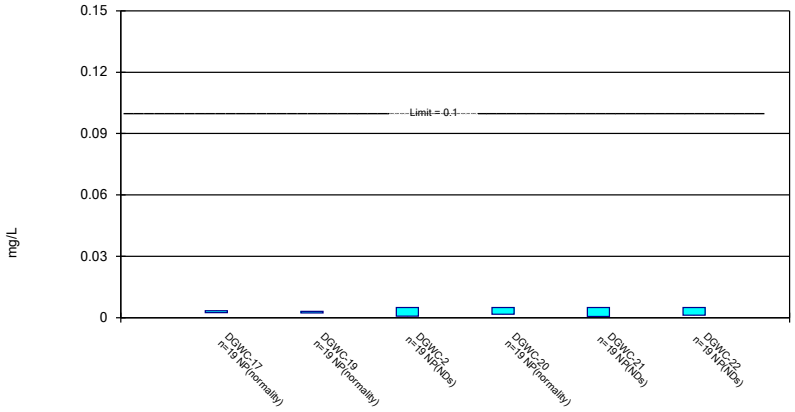

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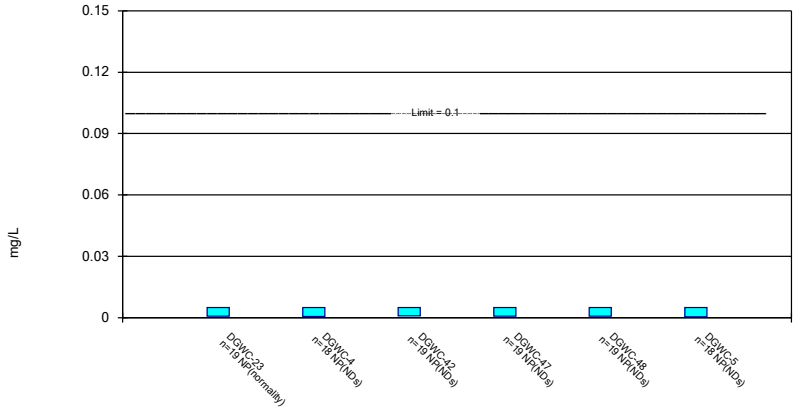

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Non-Parametric Confidence Interval

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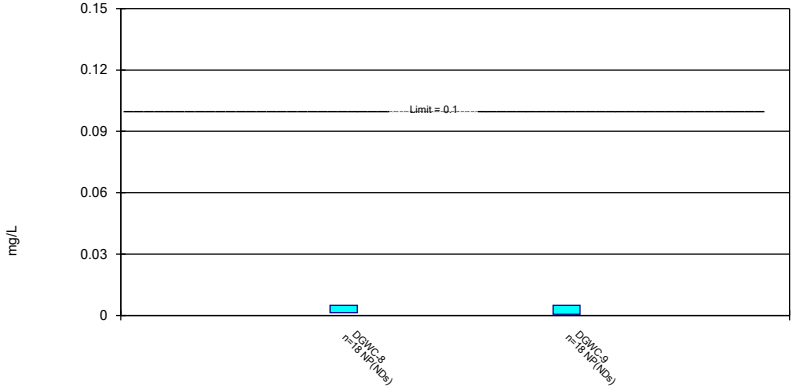

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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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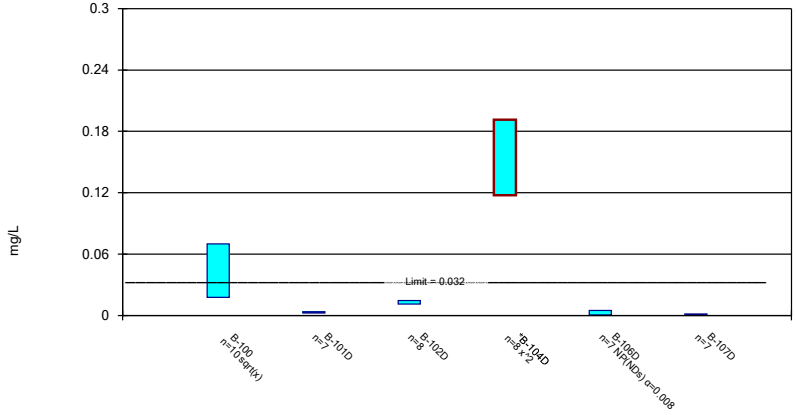

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Plant McDonough Client: Southern Company Data: McDonough AP

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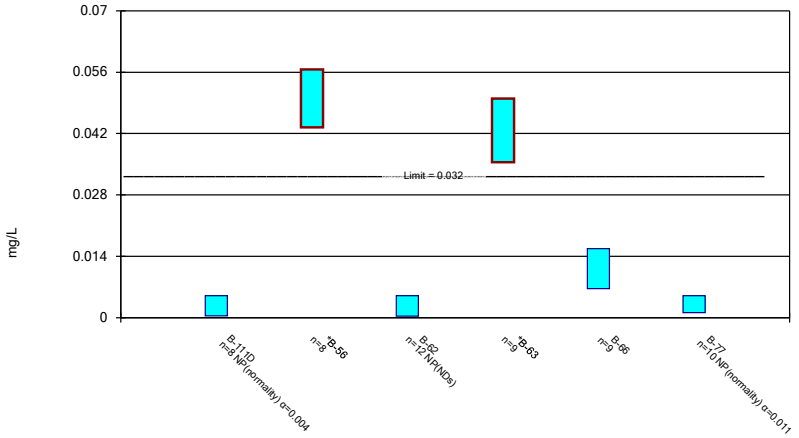

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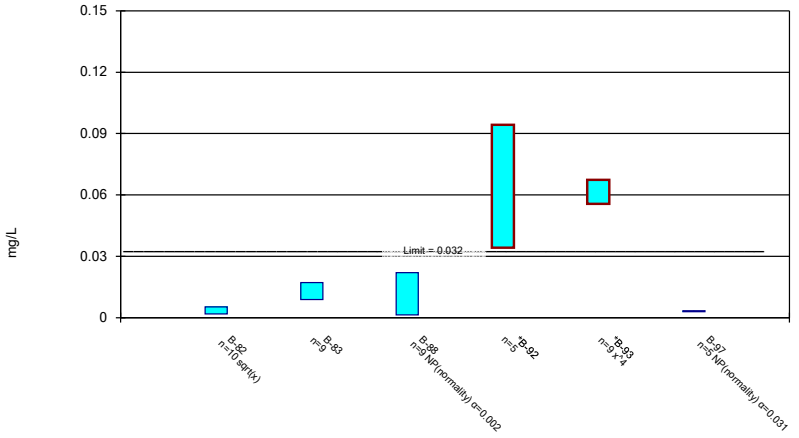

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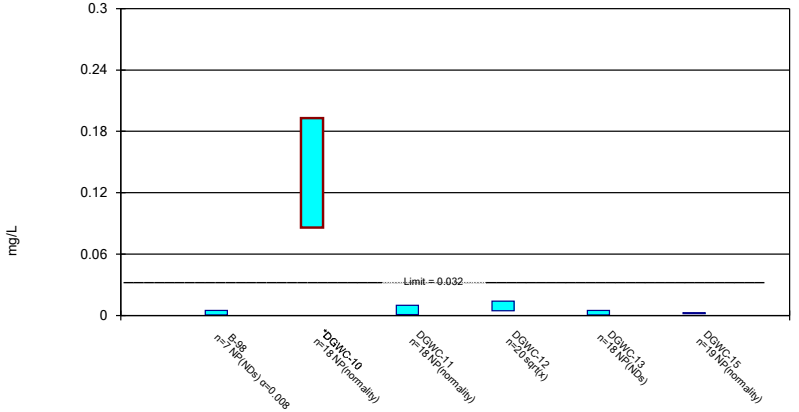

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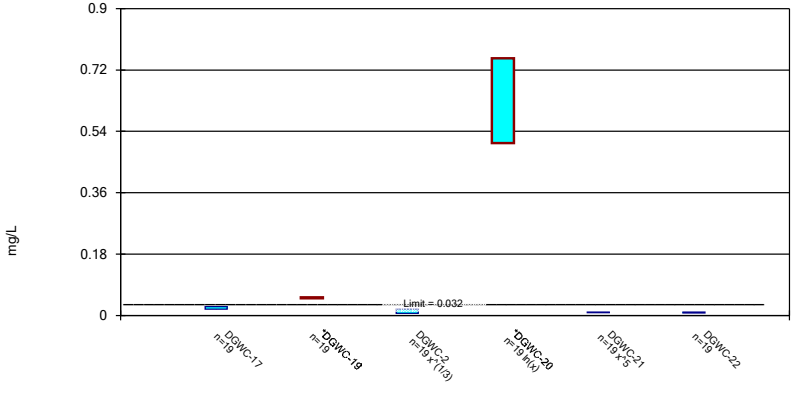

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Plant McDonough Client: Southern Company Data: McDonough AP

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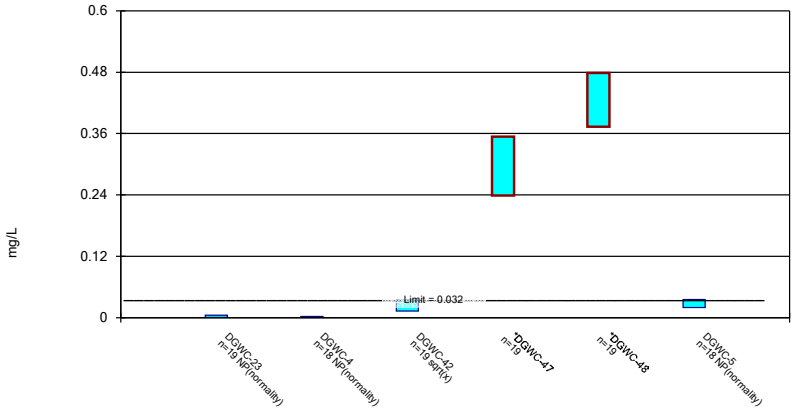

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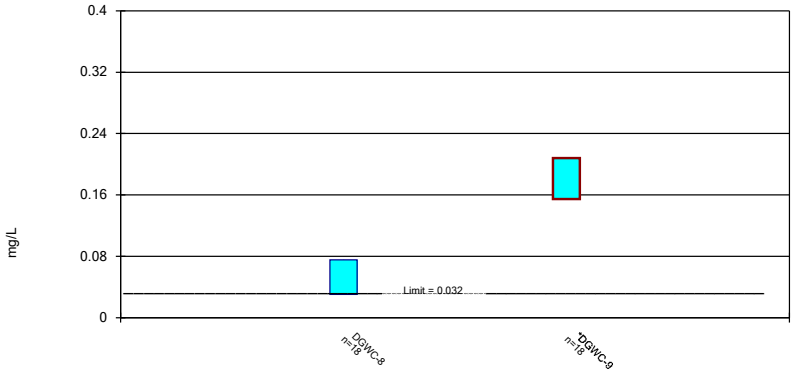

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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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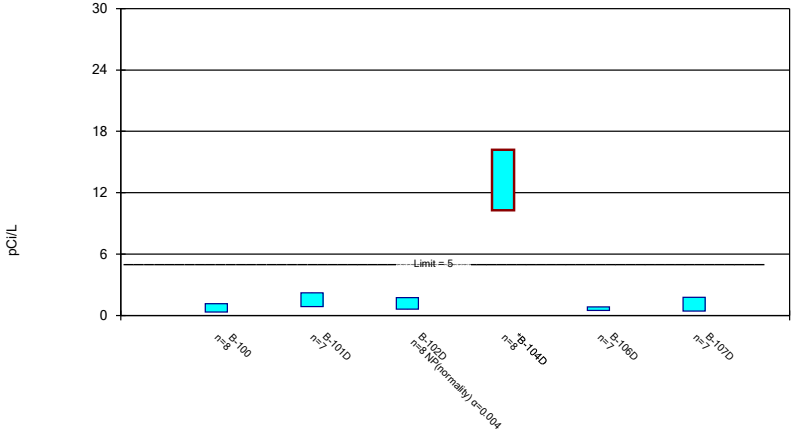

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Inte
Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric Confidence Interval

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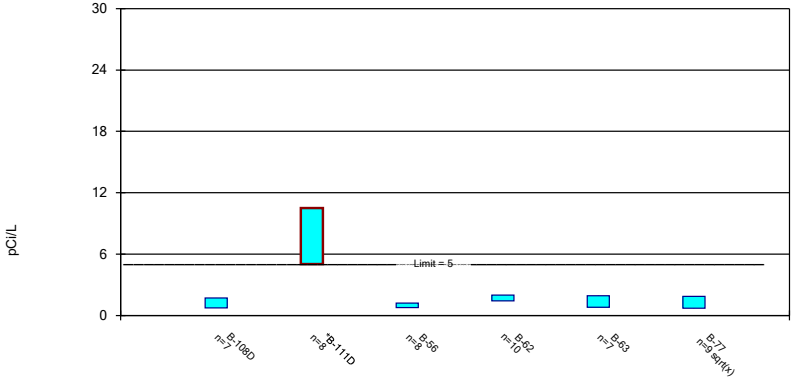

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Plant McDonough Client: Southern Company Data: McDonough AP

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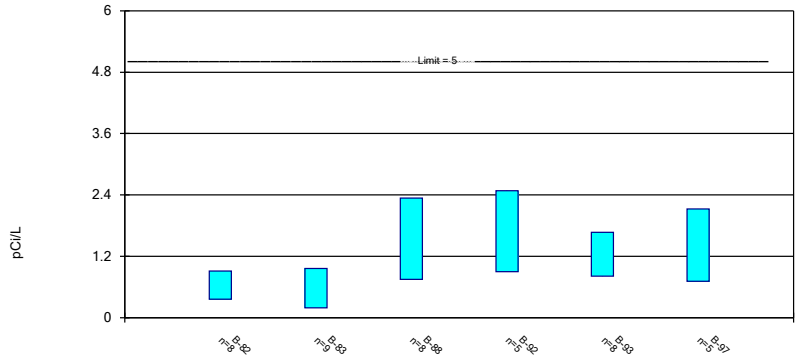

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Plant McDonough Client: Southern Company Data: McDonough AP

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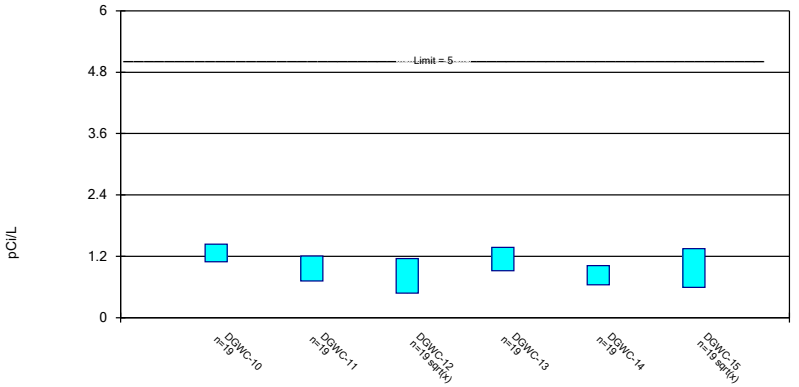

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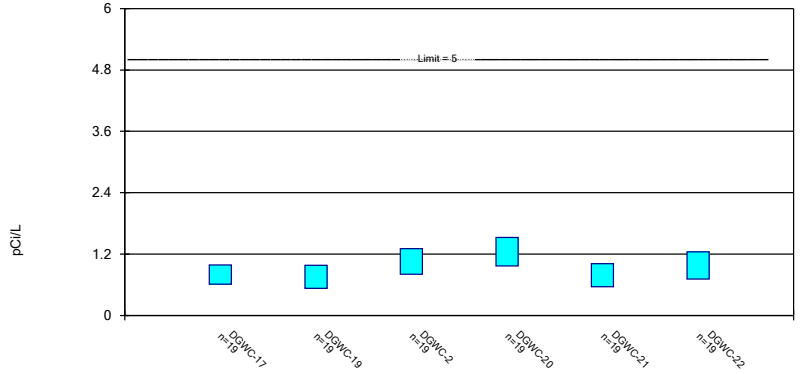

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Plant McDonough Client: Southern Company Data: McDonough AP

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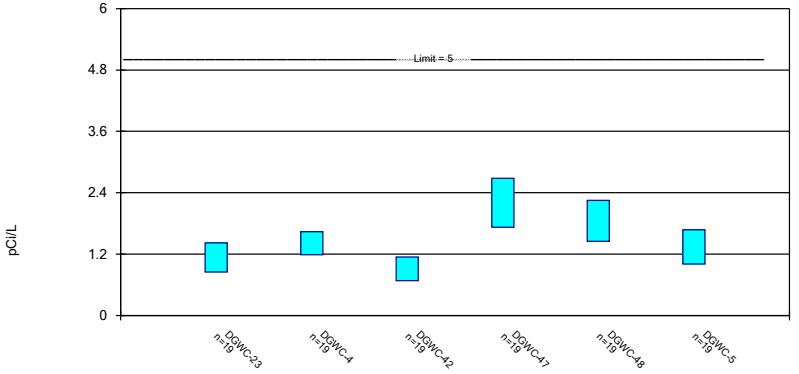

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Plant McDonough Client: Southern Company Data: McDonough AP

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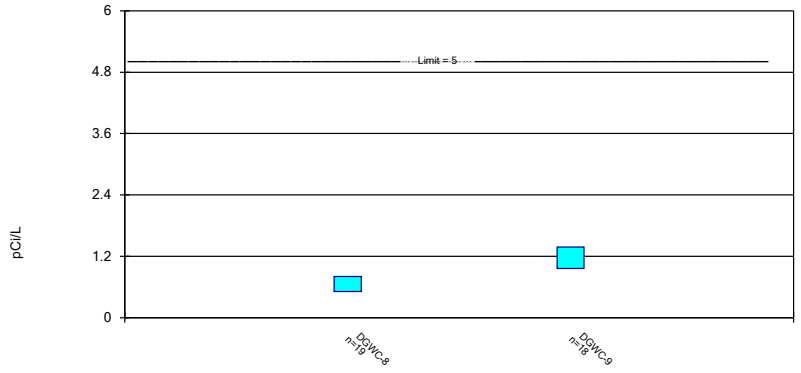

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Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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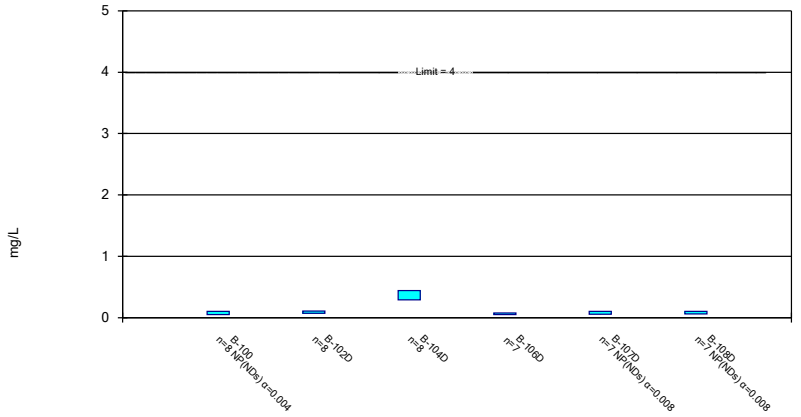

Constituent: Fluoride Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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Parametric and Non-Parametric (NP) Confidence Interval

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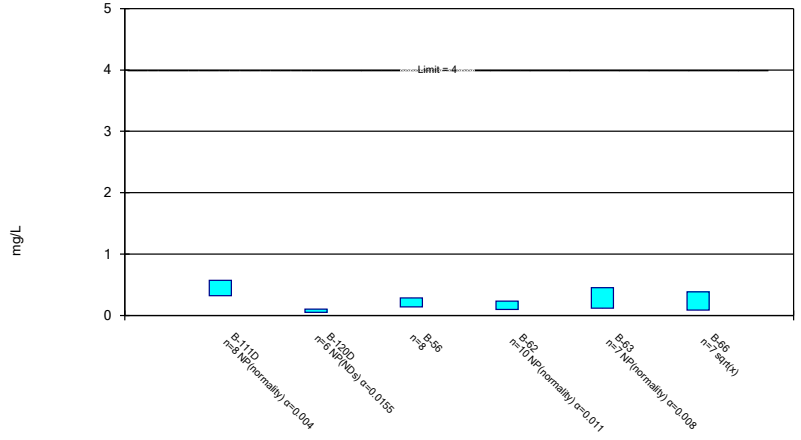

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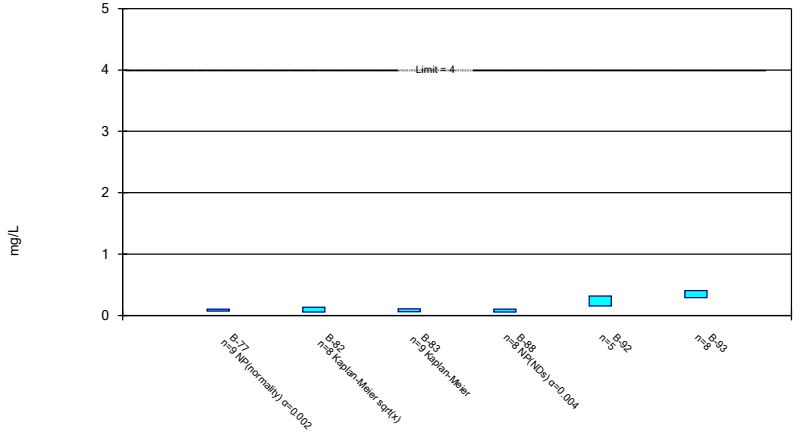

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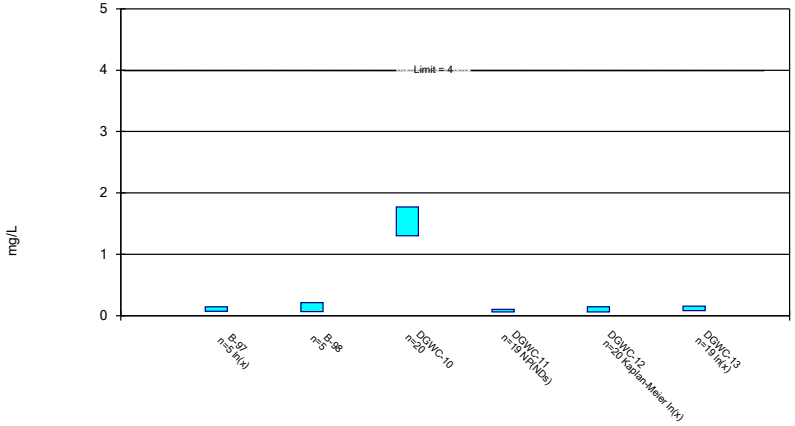

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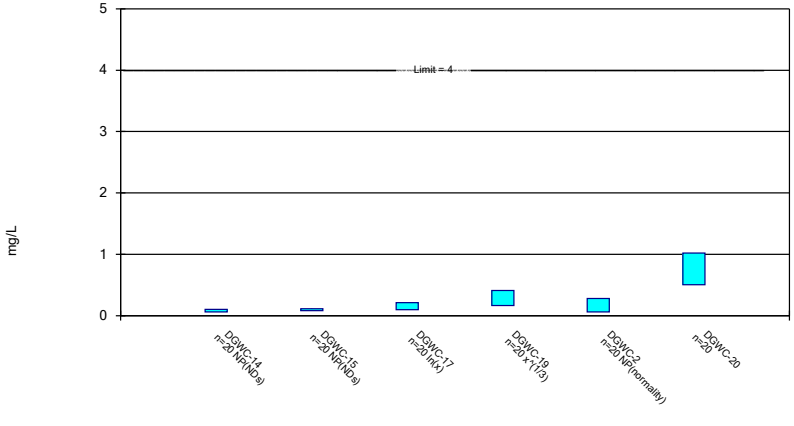

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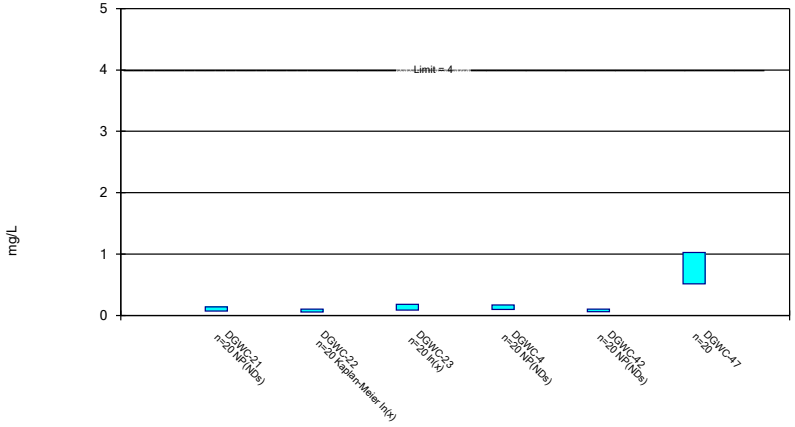

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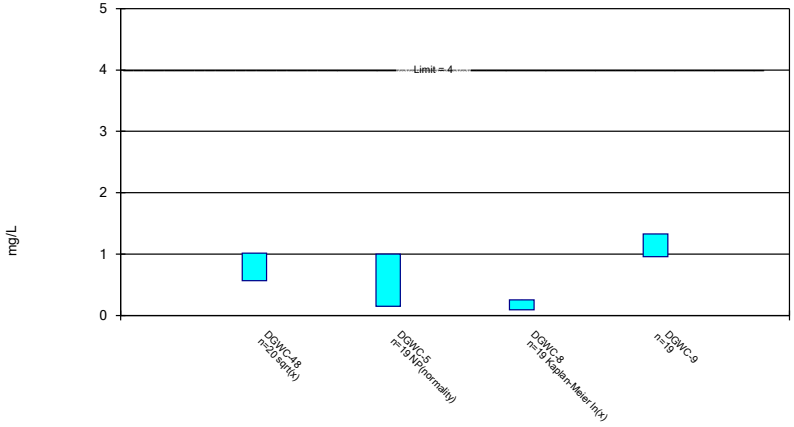

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Non-Parametric Confidence Interval

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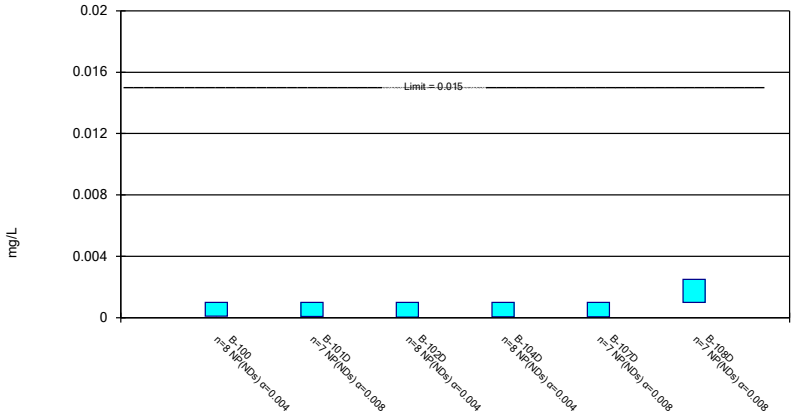

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Non-Parametric Confidence Interval

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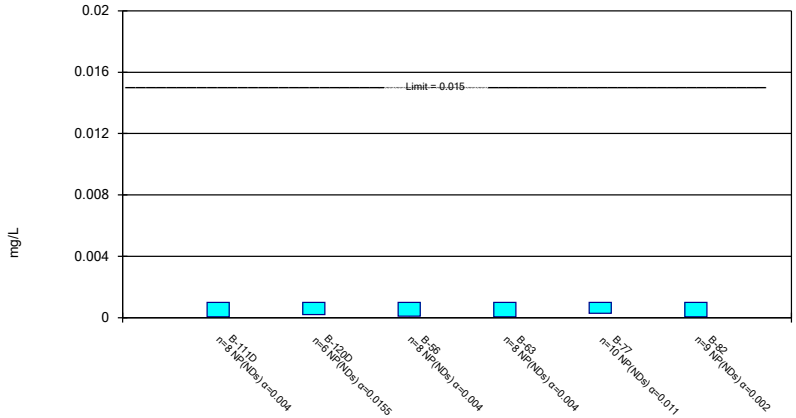

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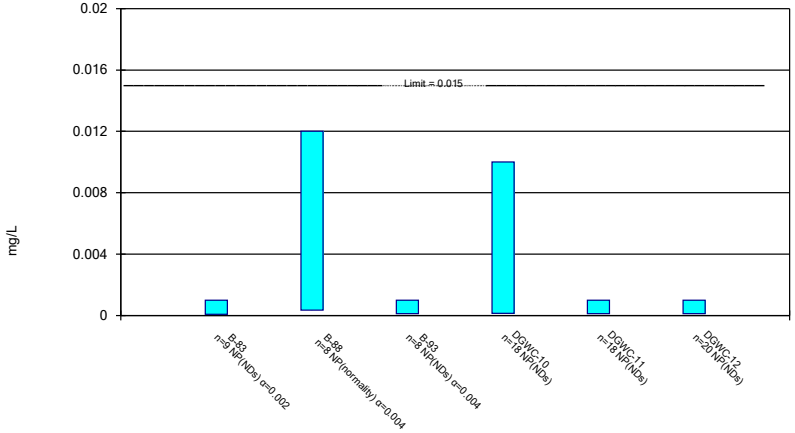

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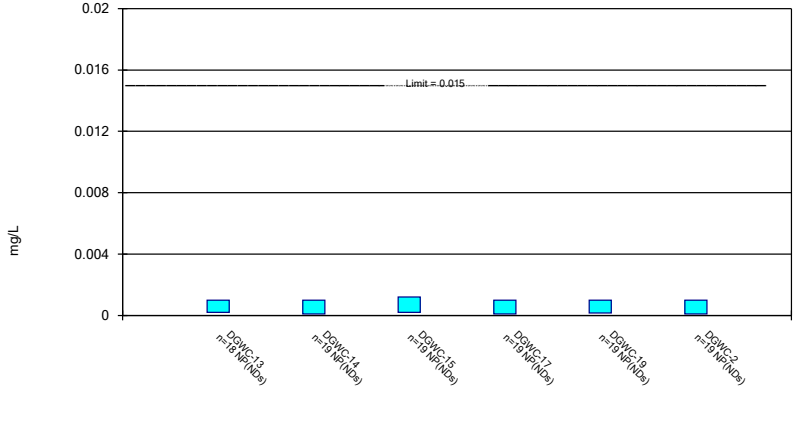

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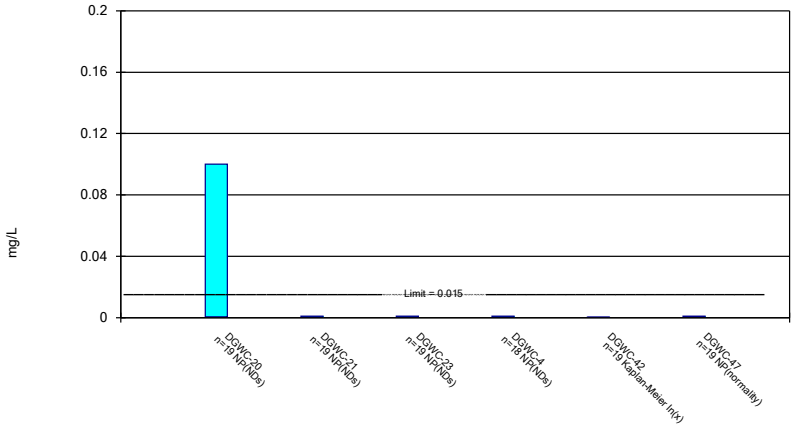

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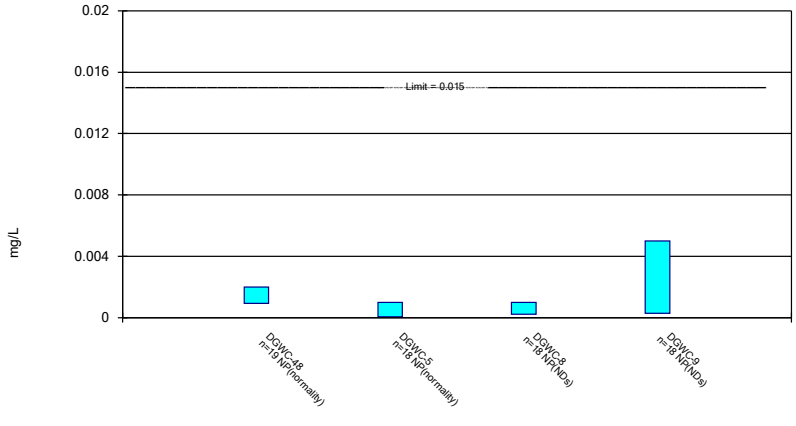

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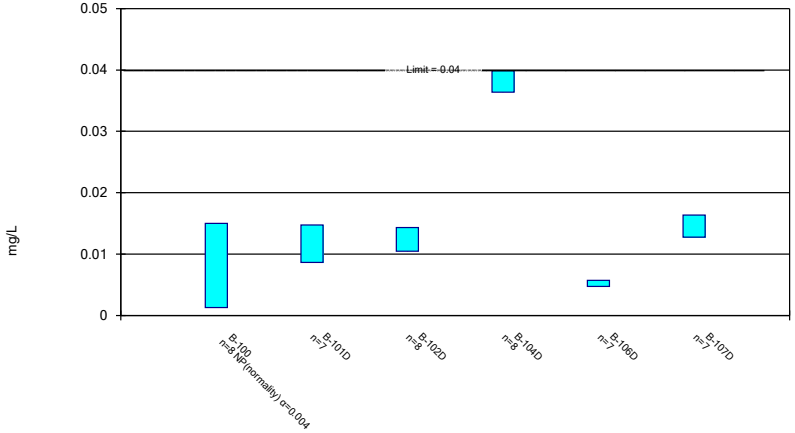

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Plant McDonough Client: Southern Company Data: McDonough AP

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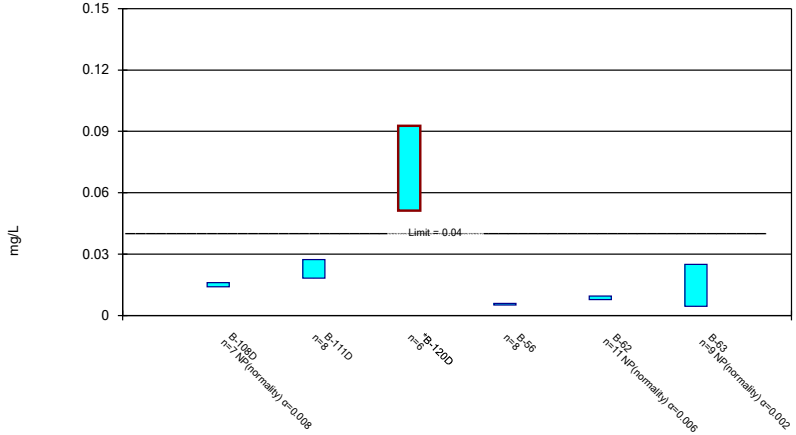

Constituent: Lithium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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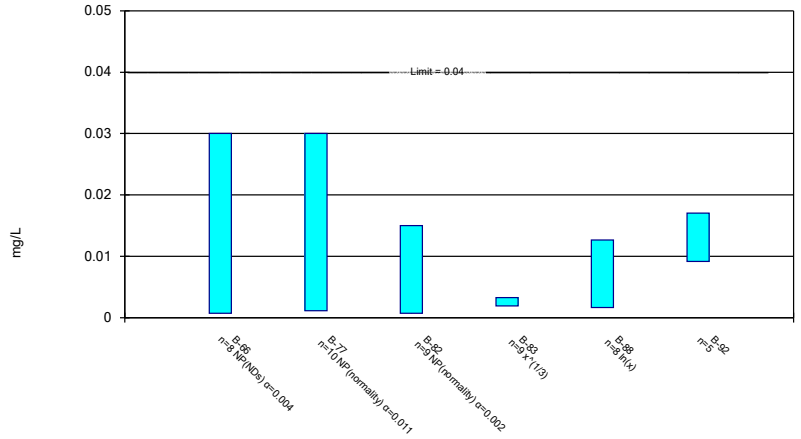
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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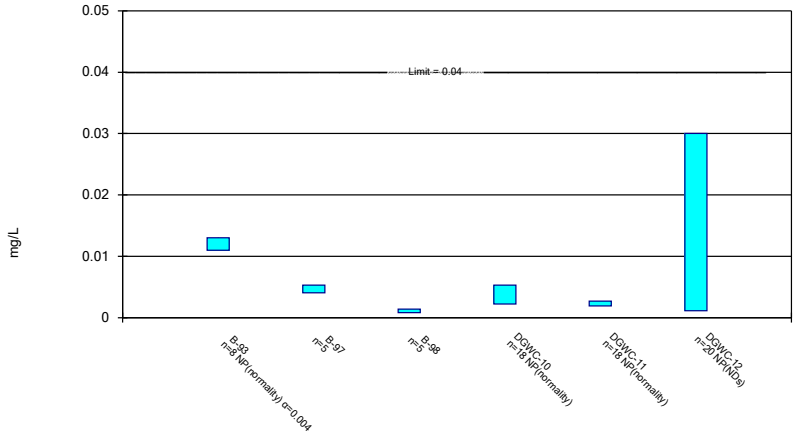
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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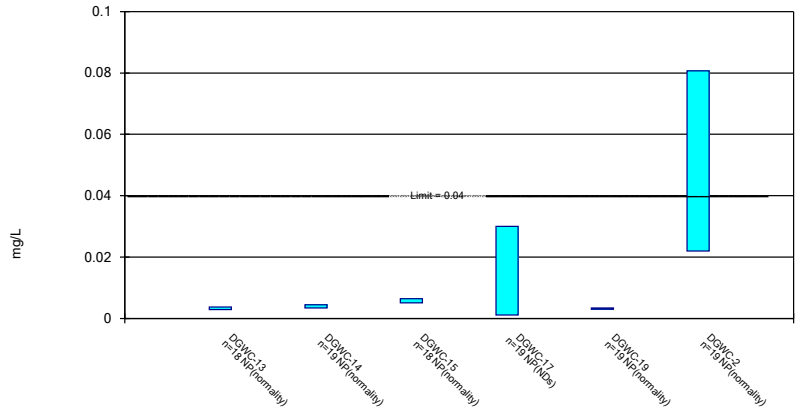
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

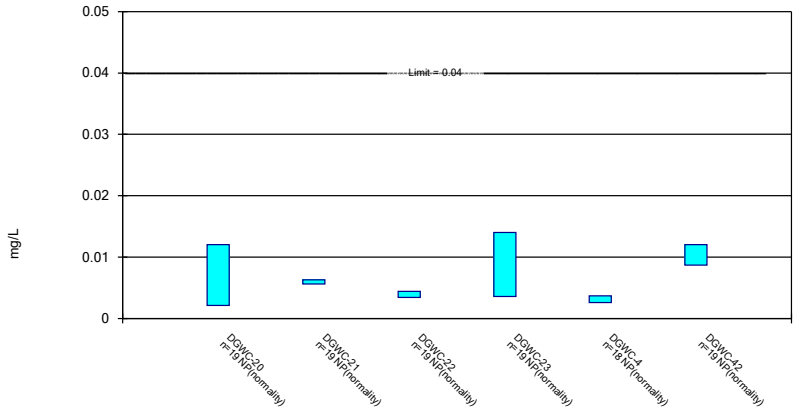


Constituent: Lithium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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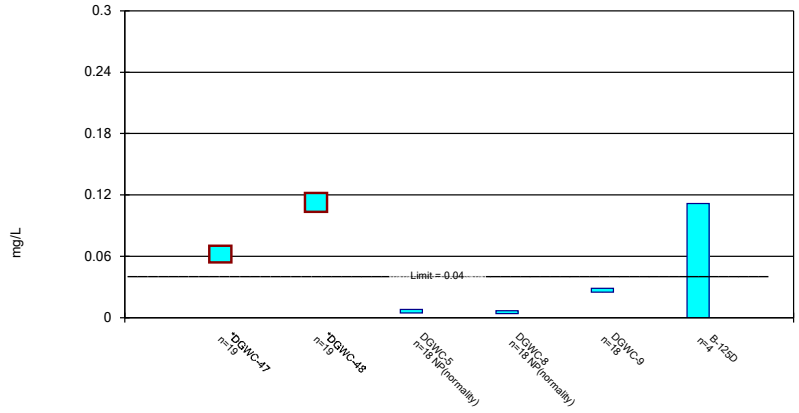
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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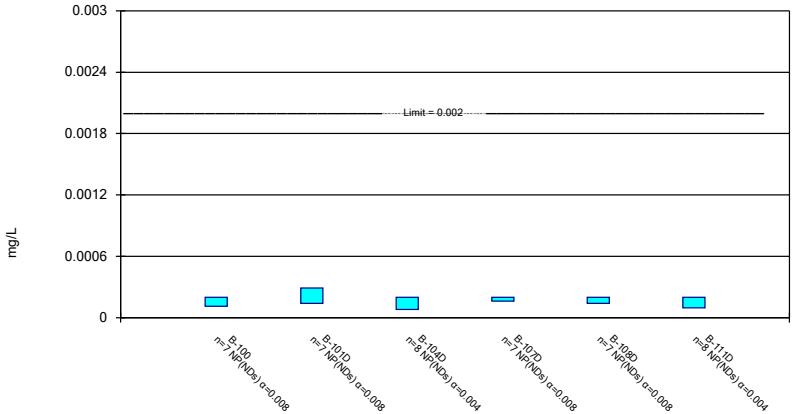
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

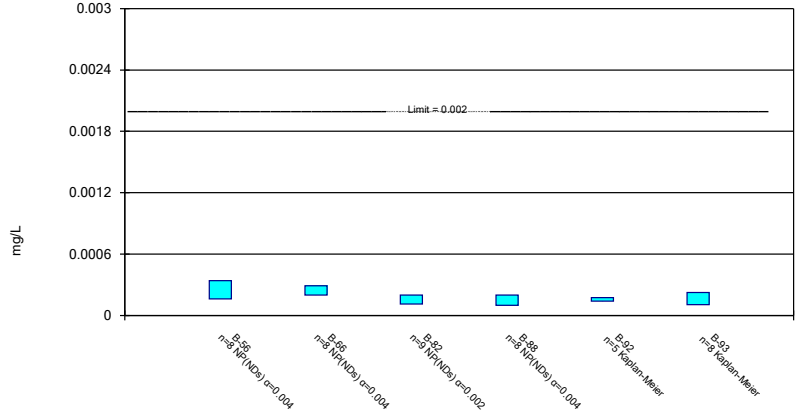


Constituent: Mercury Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

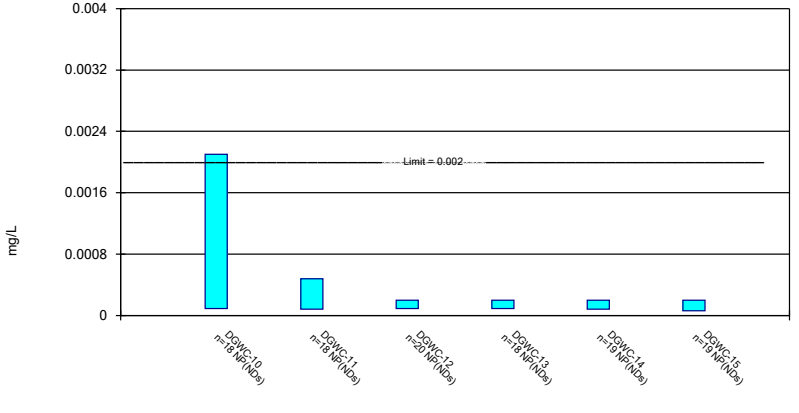


Constituent: Mercury Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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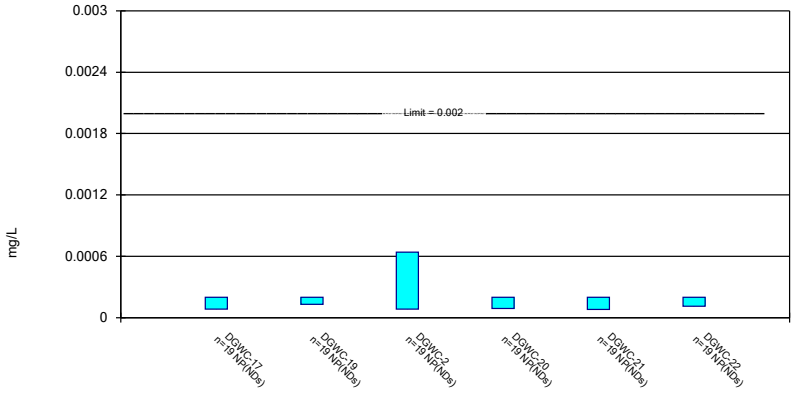
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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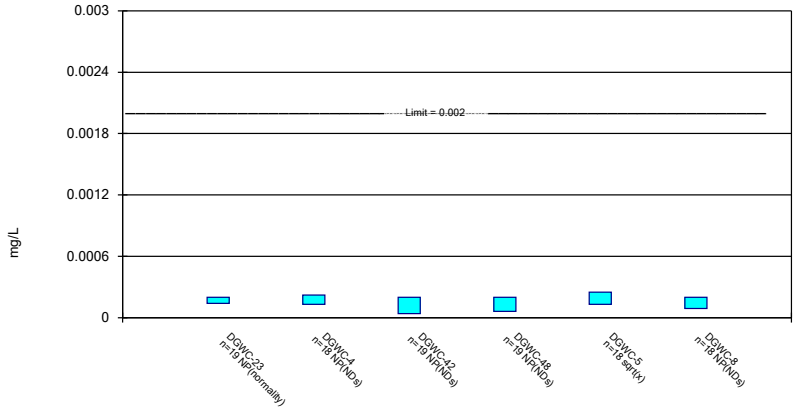
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

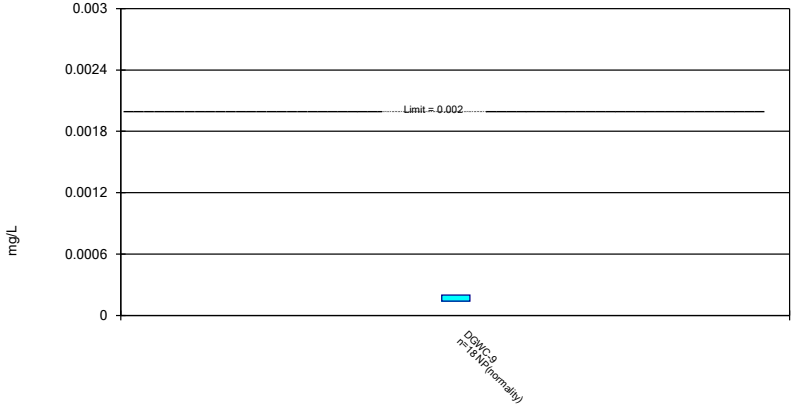


Constituent: Mercury Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

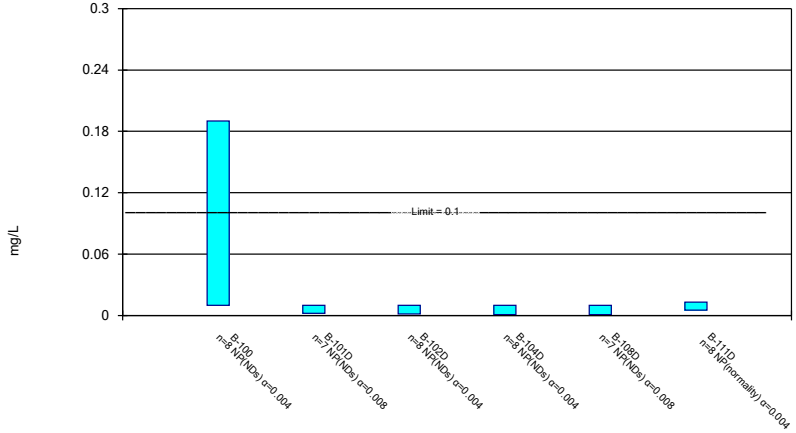


Constituent: Mercury Analysis Run 1/16/2024 2:17 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

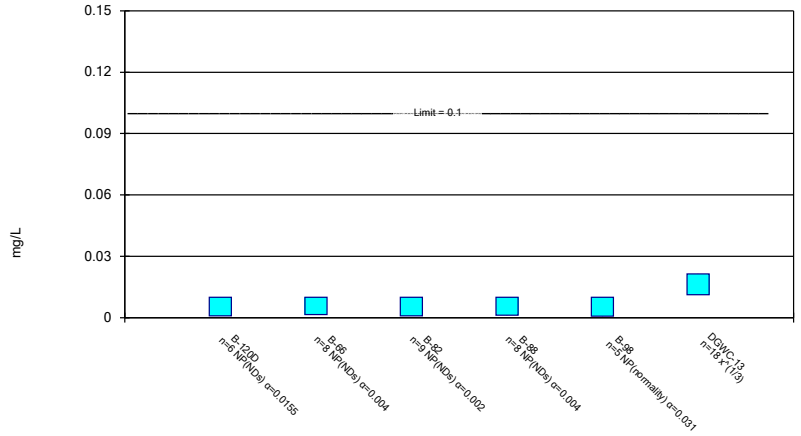


Constituent: Molybdenum Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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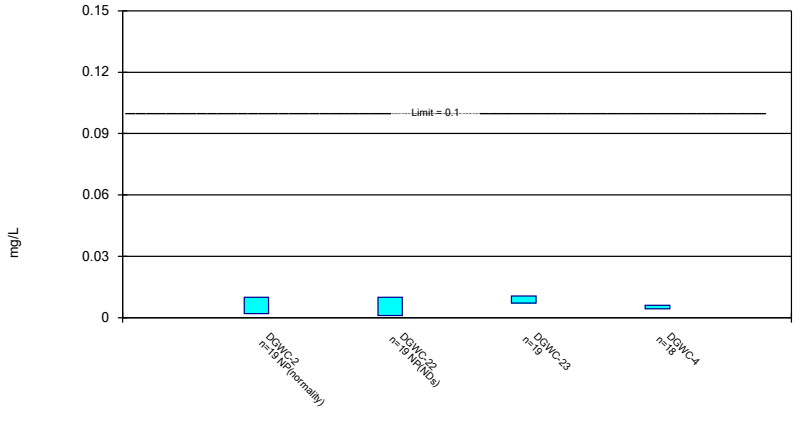
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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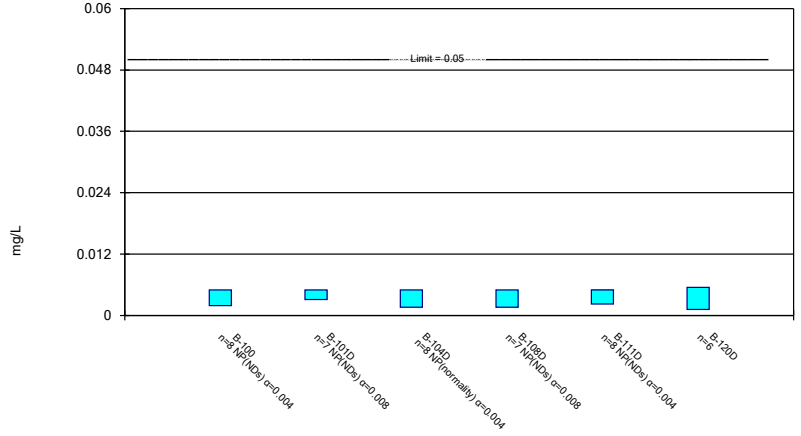
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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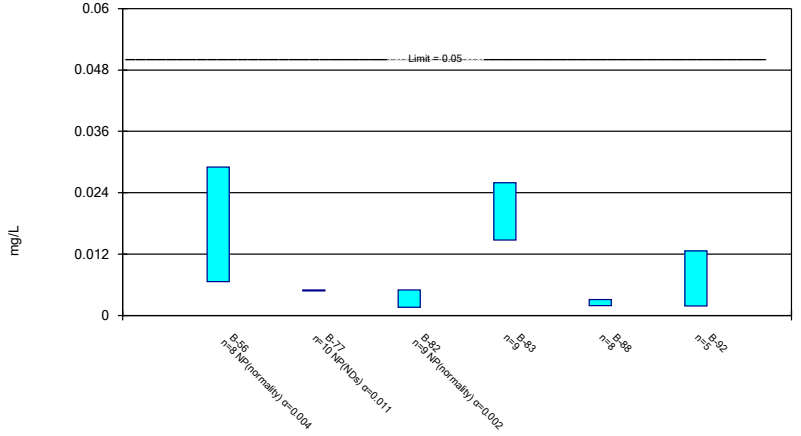
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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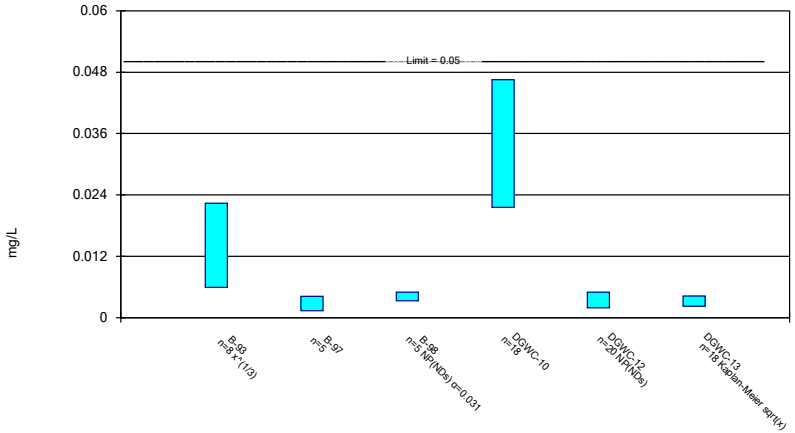
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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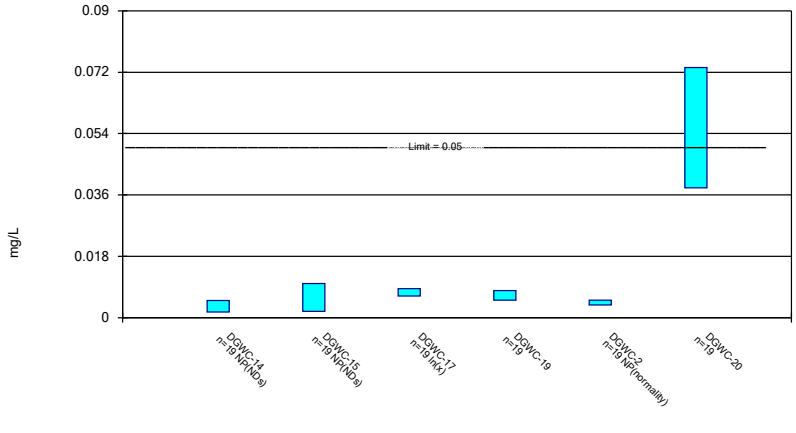
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

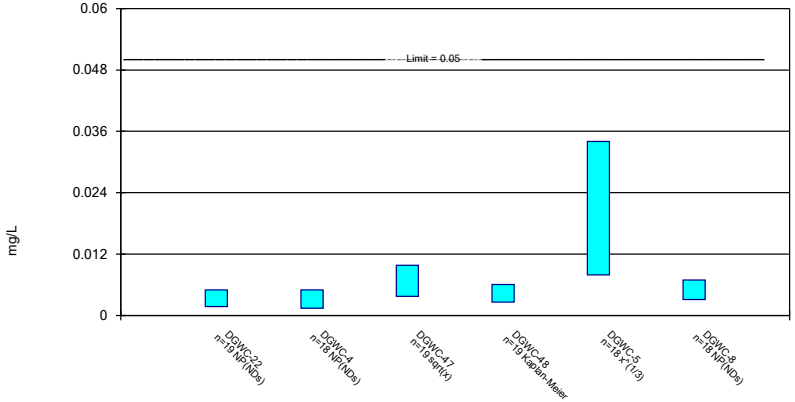


Constituent: Selenium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

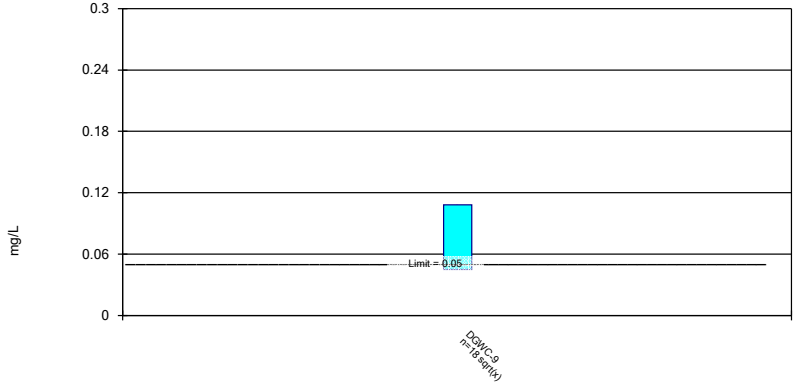


Constituent: Selenium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

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 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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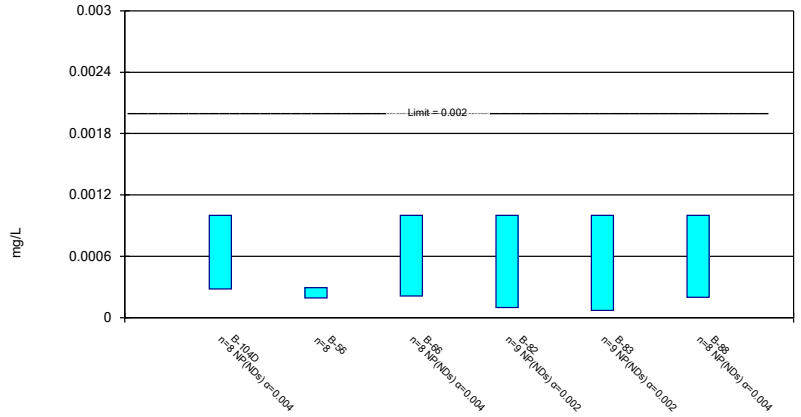
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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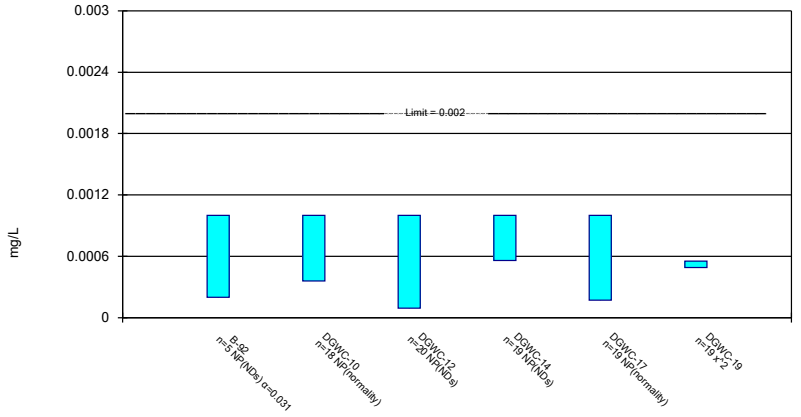
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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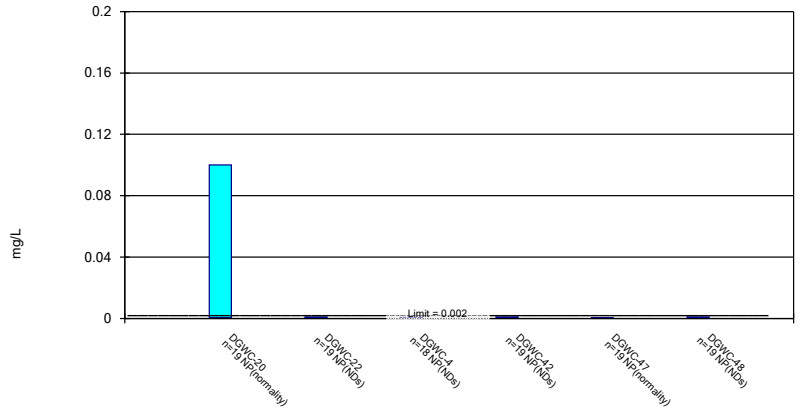
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

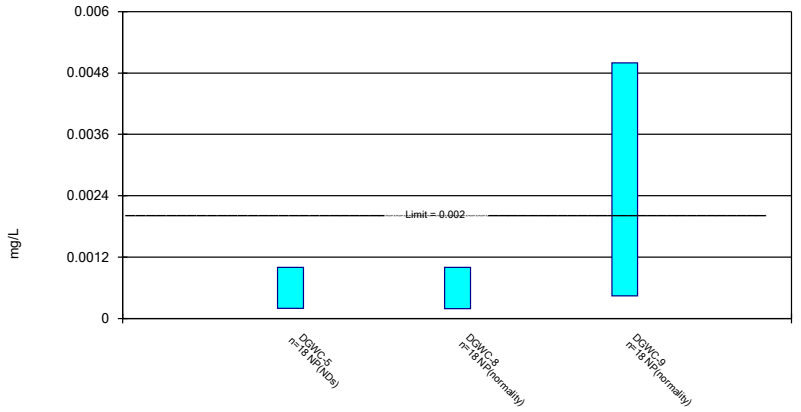


Constituent: Thallium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/16/2024 2:18 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 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-111D
8/17/2020	0.0013 (J)					
9/25/2020	<0.003					
12/9/2020				0.00079 (J)		<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
3/4/2021			<0.003	0.00077 (J)	<0.003	
3/5/2021		0.0019 (J)				0.0006 (J)
3/8/2021	0.0017 (J)					
9/10/2021			<0.003			
9/13/2021	<0.003	0.001 (J)			<0.003	
9/14/2021				<0.003		<0.003
1/21/2022	<0.003					
1/24/2022				0.001 (J)		<0.003
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			
9/16/2022		<0.003			<0.003	
2/2/2023	<0.003		<0.003			
2/3/2023		<0.003		<0.003		
2/7/2023					<0.003	<0.003
9/6/2023	<0.003					
9/8/2023		<0.003				
9/11/2023			<0.003		<0.003	
9/13/2023				<0.003		0.0016 (J)
Mean	0.002625	0.001873	0.002825	0.00188	0.00264	0.002525
Std. Dev.	0.0007025	0.001146	0.000495	0.001205	0.0009525	0.0009192
Upper Lim.	0.003	0.001684	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0004313	0.0016	0.00048	0.00048	0.0006

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-77	B-93
1/28/2019				<0.003		
1/30/2019			<0.003			
9/11/2019			<0.003	<0.003		
9/18/2019					<0.003	
10/21/2019			<0.003			
10/22/2019				0.00066 (J)		
10/24/2019					<0.003	
8/13/2020			<0.003		0.00043 (J)	
8/17/2020		<0.003				
8/19/2020						<0.003
9/24/2020			0.00046 (J)		0.00036 (J)	
9/28/2020		<0.003				0.0014 (J)
3/3/2021		<0.003				
3/4/2021					0.00063 (J)	
3/9/2021						<0.003
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	
9/15/2021						<0.003
1/20/2022	<0.003		<0.003	<0.003	<0.003	
1/26/2022						<0.003
1/27/2022		0.0011 (J)				
9/8/2022			<0.003			
9/12/2022						0.00096 (J)
9/13/2022					<0.003	
9/14/2022				<0.003		
9/16/2022		<0.003				
9/19/2022	<0.003					
1/31/2023						0.0015 (J)
2/2/2023			<0.003	<0.003		
2/3/2023	<0.003					
2/6/2023					<0.003	
2/7/2023		<0.003				
9/6/2023						<0.003
9/7/2023			<0.003	<0.003		
9/8/2023		<0.003				
9/12/2023	<0.003				<0.003	
Mean	0.002548	0.002763	0.002769	0.002708	0.002242	0.002358
Std. Dev.	0.001106	0.0006718	0.0007658	0.0008273	0.001222	0.0008999
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00029	0.0011	0.003	0.00066	0.00043	0.00096

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17
8/31/2016		<0.003		<0.003		
9/1/2016			<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	
12/8/2016						<0.003
3/29/2017		<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
10/24/2017		<0.003				
10/25/2017			<0.003	<0.003	<0.003	<0.003
2/27/2018		<0.003	<0.003	<0.003		
2/28/2018					<0.003	<0.003
7/11/2018			<0.003	<0.003	<0.003	<0.003
11/6/2018		<0.003				
11/7/2018			<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)	
9/17/2019			<0.003			
10/15/2019		<0.003	<0.003			
10/16/2019				<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	
3/4/2020						<0.003
8/11/2020		<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)		
9/23/2020					<0.003	
9/24/2020		<0.003				0.00045 (J)
3/2/2021				<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	
9/10/2021		<0.003				
9/13/2021						<0.003
9/15/2021	<0.003					
1/24/2022					<0.003	<0.003
1/25/2022			<0.003	<0.003		
1/26/2022	<0.003	0.0021 (J)				
9/13/2022	<0.003			<0.003	<0.003	
9/14/2022						<0.003
9/15/2022		<0.003	<0.003			
1/31/2023	0.001 (J)					
2/1/2023				0.001 (J)		
2/2/2023		<0.003			<0.003	
2/6/2023			<0.003			<0.003
9/6/2023	<0.003					
9/8/2023				<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17
9/11/2023		<0.003	<0.003			
9/13/2023						<0.003
Mean	0.0026	0.00295	0.002865	0.002795	0.00274	0.002866
Std. Dev.	0.0008944	0.0002121	0.0006037	0.0006151	0.0007816	0.000585
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0021	0.0003	0.0011	0.00073	0.00045

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23	DGWC-4
9/1/2016	<0.003					
9/2/2016			<0.003	<0.003		
12/7/2016	<0.003		<0.003			
12/8/2016				<0.003		
3/28/2017						<0.003
3/29/2017	<0.003		<0.003			
3/30/2017		<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
8/28/2019	<0.003					
8/29/2019			<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		
10/18/2019					<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		<0.003	
8/14/2020				<0.003		
9/22/2020	0.00036 (J)		<0.003			<0.003
9/23/2020		<0.003				
9/24/2020				<0.003	<0.003	
3/1/2021						0.00049 (J)
3/2/2021	<0.003	<0.003	<0.003			
3/3/2021				<0.003	<0.003	
9/9/2021	<0.003	<0.003		<0.003	<0.003	
9/10/2021			<0.003			<0.003
1/20/2022		<0.003		<0.003	<0.003	
1/21/2022			<0.003			
1/24/2022						<0.003
1/25/2022	<0.003					
9/14/2022	<0.003					
9/15/2022			<0.003	<0.003		
9/19/2022						<0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23	DGWC-4
9/20/2022		<0.003			<0.003	
2/3/2023						<0.003
2/6/2023	<0.003	<0.003			<0.003	
2/7/2023			<0.003	<0.003		
9/8/2023	0.0013 (J)					
9/11/2023			0.0018 (J)	<0.003	<0.003	
9/13/2023		<0.003				<0.003
Mean	0.002772	0.002874	0.002937	0.002911	0.002879	0.002604
Std. Dev.	0.0007019	0.0005506	0.0002753	0.00039	0.0005277	0.0009131
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0006	0.0018	0.0013	0.0007	0.0008

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 2:23 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
9/12/2023	<0.003			<0.003
9/13/2023		<0.003	<0.003	
Mean	0.002905	0.002799	0.002768	0.002859
Std. Dev.	0.0004129	0.000645	0.0007055	0.0005987
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0012	0.0018	0.0015	0.00046

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-104D	B-111D	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	<0.005			
1/12/2021	<0.005	<0.005	<0.005			
3/3/2021					0.003 (J)	
3/4/2021		0.0025 (J)				
3/5/2021	0.0017 (J)		0.0023 (J)			
3/12/2021						<0.005
4/15/2021				<0.005		
9/9/2021						<0.005
9/13/2021	<0.005				0.0031 (J)	
9/14/2021		0.0019 (J)	0.0029 (J)	<0.005		
1/20/2022				0.0016 (J)		0.0033 (J)
1/24/2022		0.0035 (J)	0.0022 (J)			
1/26/2022	<0.005					
1/27/2022					0.0045 (J)	
9/8/2022						<0.005
9/13/2022		<0.005				
9/14/2022			<0.005			
9/16/2022	<0.005				<0.005	
9/19/2022				<0.005		
2/2/2023						<0.005
2/3/2023	<0.005	<0.005		<0.005		
2/7/2023			<0.005		0.005 (J)	
9/7/2023						<0.005
9/8/2023	<0.005				0.0043 (J)	
9/12/2023				<0.005		
9/13/2023		<0.005	<0.005			
Mean	0.004529	0.004112	0.00405	0.004433	0.003787	0.004845
Std. Dev.	0.001247	0.001299	0.001327	0.001388	0.0009387	0.0005126
Upper Lim.	0.005	0.005	0.005	0.005	0.004783	0.005
Lower Lim.	0.0017	0.0019	0.0022	0.0016	0.002792	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-82	B-83	B-92	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					0.0012 (J)	<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					0.0015 (J)	0.002 (J)
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)			
1/31/2023					0.0023 (J)	0.0028 (J)
2/2/2023	<0.005					
2/3/2023				<0.005		
2/6/2023		<0.005				
2/7/2023			0.004 (J)			
9/6/2023					<0.005	<0.005
9/7/2023	<0.005					
9/11/2023			<0.005			
9/12/2023		<0.005		<0.005		
Mean	0.00465	0.00374	0.0047	0.0046	0.003	0.0036
Std. Dev.	0.0009899	0.001366	0.0006749	0.0012	0.001869	0.001565
Upper Lim.	0.005	0.005	0.005	0.005	0.002445	0.005
Lower Lim.	0.0022	0.002	0.004	0.0014	0.0008887	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17
8/31/2016		0.0058		<0.005		
9/1/2016			<0.005			
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	
12/8/2016						<0.005
3/29/2017		0.0055	<0.005	<0.005		
3/30/2017					0.0006 (J)	0.0008 (J)
7/12/2017		0.0042 (J)	<0.005	<0.005	<0.005	<0.005
10/24/2017		0.0058				
10/25/2017			0.0006 (J)	<0.005	<0.005	0.0007 (J)
2/27/2018		0.0105	<0.005	<0.005		
2/28/2018					<0.005	0.00073 (J)
7/11/2018			<0.005	<0.005	<0.005	<0.005
11/6/2018		<0.005 (J)				
11/7/2018			<0.005	<0.005	<0.005	<0.005
8/27/2019		0.0024 (J)	<0.005	<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)	
10/18/2019						0.0012 (J)
3/2/2020			<0.005			
3/3/2020		0.0025 (J)		<0.005	<0.005	
3/4/2020						0.0014 (J)
8/11/2020		0.0028 (J)	<0.005	<0.005		
8/13/2020					0.0013 (J)	
8/14/2020						<0.005
9/22/2020			<0.005	<0.005		
9/23/2020					<0.005	
9/24/2020		0.0078				0.0011 (J)
3/2/2021				<0.005	<0.005	
3/3/2021			<0.005			<0.005
3/4/2021		0.006				
9/9/2021			<0.005	<0.005	<0.005	
9/10/2021		0.0076				
9/13/2021						<0.005
9/15/2021	<0.005					
1/24/2022					<0.005	0.0014 (J)
1/25/2022			<0.005	<0.005		
1/26/2022	0.0014 (J)	0.0043 (J)				
9/13/2022	<0.005			<0.005	<0.005	
9/14/2022						<0.005
9/15/2022		0.0024 (J)	<0.005			
2/1/2023	<0.005			<0.005		
2/2/2023		0.0036 (J)			<0.005	
2/6/2023			<0.005			<0.005
9/6/2023	<0.005					
9/8/2023				<0.005	<0.005	
9/11/2023		0.0065	<0.005			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-97	DGWC-10	DGWC-12	DGWC-14	DGWC-15	DGWC-17
9/13/2023						<0.005
Mean	0.00428	0.004983	0.004561	0.004757	0.004344	0.003544
Std. Dev.	0.00161	0.002453	0.00135	0.001058	0.001561	0.001967
Upper Lim.	0.005	0.006468	0.005	0.005	0.005	0.005
Lower Lim.	0.0014	0.003499	0.00063	0.00039	0.0013	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42
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		<0.005				
3/31/2017						0.0007 (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	0.0016 (J)		0.0121			
7/13/2017				<0.005		<0.005
10/24/2017		<0.005			<0.005	
10/25/2017	0.0022 (J)		0.0135	<0.005		<0.005
2/27/2018		<0.005			<0.005	
2/28/2018	0.0028 (J)		0.0177	0.001 (J)		0.0011 (J)
7/11/2018	0.0009 (J)	<0.005	0.0055			<0.005
7/12/2018				<0.005		
11/6/2018		<0.005			<0.005	
11/7/2018	<0.005 (J)		0.0054	<0.005		<0.005
8/27/2019		0.00099 (J)			<0.005	
8/28/2019	0.00049 (J)					<0.005
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			<0.005
10/18/2019				<0.005		
3/2/2020					<0.005	
3/3/2020	<0.005	0.0025 (J)		<0.005		
3/4/2020			0.029			<0.005
8/11/2020	0.0014 (J)	<0.005				
8/12/2020					<0.005	
8/13/2020			0.014			<0.005
8/14/2020				<0.005		
9/22/2020	0.0017 (J)		0.0063		<0.005	<0.005
9/23/2020		<0.005				
9/24/2020				<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		<0.005
1/21/2022			0.015			
1/24/2022					0.0011 (J)	
1/25/2022	0.0014 (J)					
9/13/2022						<0.005
9/14/2022	<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-2	DGWC-20	DGWC-22	DGWC-4	DGWC-42
9/15/2022			0.016			
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	
2/6/2023	<0.005	<0.005		<0.005		
2/7/2023			0.023			
9/8/2023	<0.005					
9/11/2023			0.029	<0.005		
9/13/2023		<0.005			<0.005	<0.005
Mean	0.002692	0.004515	0.01391	0.004789	0.00405	0.004568
Std. Dev.	0.001723	0.001182	0.007476	0.0009177	0.001833	0.001294
Upper Lim.	0.005	0.005	0.01828	0.005	0.005	0.005
Lower Lim.	0.0013	0.0025	0.009528	0.001	0.0011	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	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			
12/6/2016			0.0032 (J)	<0.005	<0.005
12/8/2016	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	0.0031 (J)				
7/11/2017			0.0203	0.0012 (J)	0.0194
7/13/2017	0.0018 (J)	0.0012 (J)			
10/24/2017				0.0015 (J)	0.0249
10/25/2017			0.0119		
10/26/2017	0.0016 (J)	0.0008 (J)			
2/27/2018			0.0094	0.002 (J)	0.0405
3/1/2018	0.0029 (J)				
3/2/2018		0.0017 (J)			
7/11/2018					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 (J)	<0.005			
8/27/2019			<0.005		0.021
8/28/2019				<0.005	
8/29/2019	0.00089 (J)	<0.005			
10/16/2019			0.0036 (J)	<0.005	
10/17/2019	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	0.0012 (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			
9/22/2020			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			
9/10/2021	0.0016 (J)	<0.005	0.0031 (J)		0.031
9/13/2021				<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			
9/14/2022			0.0038 (J)		
9/15/2022				<0.005	
9/19/2022					0.016
2/3/2023	<0.005	<0.005			0.014
2/7/2023			0.0036 (J)	<0.005	
9/12/2023	<0.005			<0.005	
9/13/2023		<0.005	<0.005		
Mean	0.003053	0.003584	0.007361	0.003981	0.02187

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
Std. Dev.	0.0016	0.001921	0.008981	0.001703	0.009656
Upper Lim.	0.005	0.005	0.007316	0.005	0.02771
Lower Lim.	0.0013	0.0012	0.002552	0.0015	0.01603

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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	
9/6/2023	0.021					
9/8/2023		0.075				
9/11/2023			0.019		0.023	
9/12/2023						0.046
9/13/2023				0.02		
Mean	0.03038	0.06629	0.021	0.0215	0.02129	0.083
Std. Dev.	0.02743	0.01027	0.001773	0.002673	0.001113	0.03385
Upper Lim.	0.098	0.07849	0.02288	0.02433	0.02261	0.1232
Lower Lim.	0.015	0.05408	0.01912	0.01867	0.01996	0.04279

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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						0.028
1/30/2019					0.018	
9/11/2019					0.023	0.021
10/21/2019					0.026	
10/22/2019						0.021
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				
3/3/2021				0.028		
3/4/2021	0.06					
3/5/2021		0.038				
3/12/2021					0.027	
4/15/2021			0.044			
9/9/2021					0.021	
9/13/2021				0.026		
9/14/2021	0.06	0.043	0.031			0.026
1/20/2022			0.025		0.021	0.02
1/24/2022	0.056	0.038				
1/27/2022				0.03		
9/8/2022					0.018	
9/14/2022		0.028				0.032
9/15/2022	0.054					
9/16/2022				0.028		
9/19/2022			0.023			
2/2/2023					0.019	0.056
2/3/2023			0.021			
2/7/2023	0.051	0.028		0.027		
9/7/2023					0.015	0.025
9/8/2023				0.028		
9/12/2023			0.021			
9/13/2023	0.051	0.031				
Mean	0.05686	0.0325	0.0275	0.02788	0.02173	0.02863
Std. Dev.	0.00549	0.006256	0.008894	0.001553	0.003977	0.01178
Upper Lim.	0.06338	0.043	0.03944	0.02952	0.02504	0.056
Lower Lim.	0.05034	0.027	0.01721	0.02623	0.01841	0.02

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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	0.016					
9/12/2019	0.017					
9/18/2019		0.086				
9/23/2019			0.031			
10/21/2019	0.018		0.03	0.034		
10/24/2019		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	0.018	0.12	0.022			
9/15/2021						0.015
9/16/2021				0.03		
1/20/2022		0.13				
1/21/2022				0.024		
1/25/2022	0.021		0.026			
1/26/2022						0.016
1/27/2022					0.018	
9/12/2022						0.017
9/13/2022		0.089		0.025		
9/16/2022	0.02		0.02		0.016	
1/31/2023						0.015
2/3/2023				0.024		
2/6/2023		0.11				
2/7/2023	0.023		0.023		0.017	
9/6/2023						0.013
9/11/2023	0.028		0.024			
9/12/2023		0.12		0.028	0.017	
Mean	0.02013	0.1095	0.02478	0.03111	0.01863	0.0152
Std. Dev.	0.003907	0.0142	0.003632	0.009968	0.002615	0.001483
Upper Lim.	0.02427	0.1222	0.02828	0.056	0.022	0.01769
Lower Lim.	0.01598	0.09683	0.02127	0.024	0.016	0.01271

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	DGWC-10	DGWC-11	DGWC-12	DGWC-13
8/31/2016			0.0321	0.0545		
9/1/2016					0.0254	
9/6/2016						0.0297
12/6/2016			0.029	0.0564		
12/7/2016					0.0241	0.0266
3/29/2017			0.0335	0.0565	0.0268	
3/30/2017						0.0308
7/12/2017			0.0314	0.0572	0.0262	0.0291
10/24/2017			0.0317	0.0596		
10/25/2017					0.0268	
11/15/2017						0.0309
2/27/2018			0.028	0.0672	0.0255	
2/28/2018						<0.01
7/11/2018					0.026	
11/6/2018			0.025	0.074		
11/7/2018					0.028	0.034
8/27/2019			0.021	0.071	0.024	
8/28/2019						0.033
9/17/2019					0.02	
10/15/2019			0.024	0.064	0.02	
10/16/2019						0.034
3/2/2020				0.071	0.04	
3/3/2020			0.024			0.035
8/11/2020			0.024	0.064	0.028	
8/12/2020						0.032
8/19/2020	0.018					
9/22/2020				0.058	0.036	
9/23/2020						0.03
9/24/2020			0.021			
9/28/2020	0.017					
3/2/2021				0.052		0.03
3/3/2021					0.035	
3/4/2021			0.025			
3/9/2021	0.016 (J)					
9/9/2021				0.054	0.04	0.027
9/10/2021			0.019			
9/15/2021	0.016	0.02				
1/25/2022				0.047	0.054	0.028
1/26/2022	0.021	0.02	0.022			
9/12/2022	0.015					
9/13/2022		0.02				
9/15/2022			0.018	0.047	0.035	0.027
1/31/2023	0.015					
2/1/2023		0.021				0.023
2/2/2023			0.02			
2/6/2023				0.039	0.047	
9/6/2023	0.017	0.02				
9/8/2023				0.034		0.022
9/11/2023			0.019		0.058	
Mean	0.01688	0.0202	0.02487	0.05702	0.03229	0.02817
Std. Dev.	0.001959	0.0004472	0.004989	0.0108	0.01076	0.00679
Upper Lim.	0.01895	0.021	0.02789	0.06356	0.0375	0.0318

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-93	B-97	DGWC-10	DGWC-11	DGWC-12	DGWC-13
Lower Lim.	0.0148	0.02	0.02185	0.05048	0.02607	0.02575

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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	0.0576					
9/1/2016				0.0214		
9/2/2016						0.0097 (J)
9/6/2016		0.0497				
9/7/2016			0.0694			
12/6/2016	0.0608					
12/7/2016		0.0469		0.0191		0.0087 (J)
12/8/2016			0.062			
3/29/2017	0.0693			0.0209		0.0094 (J)
3/30/2017		0.0495	0.0615		0.0232	
5/11/2017					0.0231	
6/15/2017					0.0223	
7/11/2017					0.0201	
7/12/2017	0.0585	0.0517	0.0532	0.0212		0.0099 (J)
10/24/2017					0.0206	
10/25/2017	0.0563	0.0474	0.0544	0.021		0.0096 (J)
2/27/2018	0.0591				0.0207	
2/28/2018		0.0455	0.0527	0.0213		<0.01
7/11/2018	0.061	0.05	0.053	0.023	0.022	0.01
11/6/2018					0.021	
11/7/2018	0.055	0.042	0.044	0.024		0.011
8/27/2019	0.059		0.05		0.023	
8/28/2019		0.047		0.026		
8/29/2019						0.018
10/16/2019	0.059			0.024		
10/17/2019		0.046			0.022	0.015
10/18/2019			0.045			
3/3/2020	0.064	0.05		0.028	0.022	
3/4/2020			0.044			0.017
8/11/2020	0.061			0.027	0.022	
8/13/2020		0.06				0.019
8/14/2020			0.046			
9/22/2020	0.06			0.026		0.011
9/23/2020		0.043			0.023	
9/24/2020			0.033			
3/2/2021	0.064	0.043		0.026	0.023	0.021
3/3/2021			0.036			
9/9/2021	0.059	0.041		0.025	0.022	
9/10/2021						0.0098
9/13/2021			0.031			
1/20/2022					0.022	
1/21/2022						0.018
1/24/2022		0.041	0.031			
1/25/2022	0.064			0.026		
9/13/2022	0.063	0.042				
9/14/2022			0.031	0.027		
9/15/2022						0.017
9/20/2022					0.02	
2/1/2023	0.057					
2/2/2023		0.039				
2/6/2023			0.029	0.025	0.02	
2/7/2023						0.019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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
9/8/2023	0.057	0.035		0.022		
9/11/2023						0.014
9/13/2023			0.031		0.023	
Mean	0.06024	0.04577	0.04512	0.02389	0.02184	0.01327
Std. Dev.	0.003444	0.005575	0.01231	0.002596	0.001119	0.004573
Upper Lim.	0.06226	0.04904	0.05232	0.02541	0.023	0.01595
Lower Lim.	0.05823	0.04251	0.03791	0.02237	0.0206	0.01059

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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						0.0162
9/2/2016	0.0252	0.0397				
9/7/2016					0.0194	
12/8/2016	0.0262	0.0408			0.0189	0.0247
3/28/2017				0.0363		
3/29/2017		0.0417				
3/30/2017	0.0272		0.0184			
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		
7/12/2017	0.0276		0.0186			
7/13/2017		0.0376			0.021	0.0165
10/24/2017				0.0351		
10/25/2017	0.0262	0.0384			0.0196	
10/26/2017			0.0176			0.0152
2/27/2018				0.0364		
2/28/2018	0.027	0.0353			0.0171	
3/1/2018			0.0164			0.0164
7/11/2018	0.027				0.02	
7/12/2018		0.036	0.022			0.015
11/6/2018				0.035		
11/7/2018	0.024	0.031			0.017	0.02
11/8/2018			0.022			
8/27/2019				0.036		
8/28/2019					0.018	
8/29/2019	0.027	0.031	0.025			0.018
10/15/2019				0.033		
10/17/2019	0.027				0.018	0.019
10/18/2019		0.032	0.019			
3/2/2020				0.036		
3/3/2020	0.027	0.035				
3/4/2020			0.032		0.015	0.017
8/12/2020				0.036		0.016
8/13/2020			0.027		0.027	
8/14/2020	0.027	0.035				
9/22/2020				0.03	0.016	
9/23/2020						0.014
9/24/2020	0.024	0.031	0.02			
3/1/2021				0.039		
3/3/2021	0.024	0.031	0.019		0.015	0.02
9/9/2021	0.023		0.021			
9/10/2021		0.027		0.032		0.021
9/13/2021					0.014	
1/20/2022	0.024	0.029	0.024		0.014	
1/21/2022						0.017
1/24/2022				0.035		
9/13/2022					0.016	0.022
9/15/2022	0.024					
9/16/2022		0.029				
9/19/2022				0.032		
9/20/2022			0.019			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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
2/1/2023					0.015	
2/3/2023				0.034		0.019
2/6/2023		0.027	0.023			
2/7/2023	0.024					
9/11/2023	0.024	0.029	0.022			
9/12/2023						0.023
9/13/2023				0.034	0.015	
Mean	0.02555	0.0335	0.02132	0.03409	0.01765	0.01836
Std. Dev.	0.00156	0.004632	0.003733	0.002514	0.003134	0.002888
Upper Lim.	0.027	0.03621	0.02331	0.03561	0.01933	0.02005
Lower Lim.	0.024	0.03079	0.01914	0.03257	0.01582	0.01667

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 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			0.0435	0.0162
8/31/2016		0.0266 (O)		
9/1/2016	0.0157			
12/6/2016		0.0186	0.0431	0.0138
12/8/2016	0.0155			
3/28/2017		0.0187		0.017
3/29/2017			0.044	
3/30/2017	0.0131			
7/11/2017		0.0174 (J)	0.0389	0.0154 (J)
7/13/2017	0.014			
10/24/2017			0.0369	0.0148
10/25/2017		0.0175		
10/26/2017	0.0117			
2/27/2018		0.0172	0.0346	0.0148
3/2/2018	0.0131			
7/11/2018				0.017
7/12/2018	0.013			
11/6/2018		0.016	0.027	0.015
11/7/2018	0.014			
8/27/2019		0.017		0.016
8/28/2019			0.025	
8/29/2019	0.014			
10/16/2019		0.02	0.027	
10/17/2019				0.015
10/18/2019	0.014			
3/2/2020		0.018		
3/3/2020			0.026	0.016
3/4/2020	0.014			
8/11/2020				0.016
8/12/2020		0.017	0.034	
8/13/2020	0.013			
9/22/2020		0.017		0.015
9/23/2020	0.013		0.025	
3/2/2021		0.017	0.029	0.017
3/3/2021	0.014			
9/10/2021	0.013	0.015		0.014
9/13/2021			0.019	
1/24/2022	0.014	0.018		
1/25/2022			0.019	
1/26/2022				0.016
9/13/2022	0.014			
9/14/2022		0.018		
9/15/2022			0.021	
9/19/2022				0.017
2/3/2023	0.013			0.019
2/7/2023		0.019	0.025	
9/12/2023			0.021	
9/13/2023	0.015	0.016		
Mean	0.01374	0.01749	0.02994	0.01583
Std. Dev.	0.0009657	0.001218	0.008498	0.001275
Upper Lim.	0.015	0.01826	0.03509	0.0166
Lower Lim.	0.013	0.01673	0.0248	0.01506

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 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)	
9/6/2023	0.00054					
9/8/2023		<0.0005				
9/11/2023			0.00074		6.6E-05 (J)	
9/12/2023						<0.0005
9/13/2023				0.0016		
Mean	0.000455	9.129E-05	0.001094	0.0014	0.0001071	0.0004357
Std. Dev.	0.0001135	7.062E-05	0.0002123	0.0001852	2.4E-05	0.0001701
Upper Lim.	0.0005753	0.00025	0.001319	0.001596	0.0001356	0.0005
Lower Lim.	0.0003347	4.7E-05	0.0008688	0.001204	7.864E-05	5E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-56	B-62	B-63	B-77	B-82
10/6/2016			9E-05 (J)			
10/7/2016				0.0004 (J)		
2/19/2018				0.00049 (J)		
1/28/2019				<0.003		
1/30/2019			<0.0025			
9/11/2019			0.00012 (J)	0.00035 (J)		
9/18/2019					0.00011 (J)	
9/23/2019						0.0015 (J)
10/21/2019			7.8E-05 (J)			0.0011 (J)
10/22/2019				0.0003 (J)		
10/24/2019					<0.0005	
8/13/2020			0.00011 (J)		0.00014 (J)	
8/17/2020		0.0013 (J)				0.0014 (J)
9/24/2020			0.00013 (J)		5.3E-05 (J)	
9/28/2020		0.0012 (J)				0.0015 (J)
3/3/2021		0.0011				
3/4/2021					5.7E-05 (J)	
3/12/2021			<0.0025			
4/15/2021	0.00085					
9/9/2021			0.00014 (J)			
9/13/2021		0.0012				
9/14/2021	0.00087			0.00042 (J)	<0.0005	0.0017
1/20/2022	0.0011		0.00015 (J)	0.00034 (J)	<0.0005	
1/25/2022						0.0021
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				0.002
9/19/2022	0.0011					
2/2/2023			0.00012 (J)	0.00028 (J)		
2/3/2023	0.001					
2/6/2023					<0.0005	
2/7/2023		0.0012				0.0018
9/7/2023			0.00011 (J)	0.0005 (J)		
9/8/2023		0.0013				
9/11/2023						0.0017
9/12/2023	0.00066				<0.0005	
Mean	0.00093	0.001225	0.0005148	0.000511	0.000299	0.001644
Std. Dev.	0.0001706	7.071E-05	0.0009275	0.0003579	0.0002136	0.0003087
Upper Lim.	0.001164	0.0013	0.0025	0.00053	0.0005	0.001942
Lower Lim.	0.0006956	0.0011	9E-05	0.0003	5.7E-05	0.001346

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-92	B-93	B-97	B-98
10/21/2019	0.00039 (J)					
12/18/2019			0.022			
12/19/2019				0.0069		
2/17/2020					<0.003	<0.0005
2/27/2020					0.0019 (J)	<0.0005
8/14/2020	0.0007 (J)					
8/17/2020		0.0014 (J)				
8/19/2020				0.015		
9/25/2020	0.00028 (J)	0.00063 (J)				
9/28/2020				0.015		
3/4/2021	0.00037 (J)					
3/5/2021		0.005				
3/9/2021			0.017	0.017	0.0019	
3/15/2021						<0.0005
9/13/2021		0.001				
9/15/2021			0.014	0.015	0.0016	0.00087
9/16/2021	0.00028 (J)					
1/21/2022	0.00039 (J)					
1/26/2022			0.018	0.017	0.0017	6.8E-05 (J)
1/27/2022		0.0019				
9/12/2022			0.017	0.017		
9/13/2022	0.00044 (J)				0.0017	6.2E-05 (J)
9/16/2022		0.0013				
1/31/2023			0.017	0.016		<0.0005
2/1/2023					0.0017	
2/3/2023	0.00038 (J)					
2/7/2023		0.0016				
9/6/2023			0.013	0.014	0.0016	<0.0005
9/12/2023	0.00038 (J)	0.0014				
Mean	0.0004011	0.001779	0.01686	0.01477	0.0017	0.0004375
Std. Dev.	0.0001236	0.001356	0.002911	0.003145	0.0001414	0.000263
Upper Lim.	0.0007	0.002793	0.02032	0.01693	0.00185	0.00087
Lower Lim.	0.00028	0.0007957	0.0134	0.01326	0.00155	6.2E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
8/31/2016	0.0046	<0.003				
9/1/2016			0.0002 (J)			
9/6/2016				<0.003	<0.0005	
9/7/2016						0.0006 (J)
12/6/2016	0.0048	<0.003				
12/7/2016			0.0002 (J)	<0.003	<0.0005	
12/8/2016						0.0005 (J)
3/29/2017	0.0048	<0.003	0.0002 (J)			
3/30/2017				7E-05 (J)	<0.0005	0.0006 (J)
7/12/2017	0.0046	<0.003	0.0002 (J)	<0.003	<0.0005	0.0005 (J)
10/24/2017	0.0048	<0.003				
10/25/2017			0.0002 (J)		<0.0005	0.0005 (J)
11/15/2017				<0.003		
2/27/2018	0.0106	<0.003	<0.0005			
2/28/2018				<0.003	<0.0005	<0.003
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)	<0.003
8/27/2019	0.0092	0.00014 (J)	0.00028 (J)			0.00066 (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	
10/18/2019						0.00071 (J)
3/2/2020		0.00016 (J)	7.4E-05 (J)			
3/3/2020	0.0085			<0.003	<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)		
2/1/2023				6.7E-05 (J)		
2/2/2023	0.0066				<0.0005	
2/6/2023		0.00019 (J)	8.2E-05 (J)			0.00051
9/8/2023		0.0002 (J)		8.7E-05 (J)	<0.0005	
9/11/2023	0.0065		7.7E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-15	DGWC-17
9/13/2023						0.00057
Mean	0.007372	0.001262	0.0003579	0.001538	0.0005936	0.0006758
Std. Dev.	0.002253	0.001427	0.0006359	0.001504	0.0005943	0.0002959
Upper Lim.	0.008735	0.003	0.00028	0.003	0.003	0.00066
Lower Lim.	0.006009	0.00014	0.00011	7E-05	0.00022	0.00051

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/1/2016	0.0019 (J)					
9/2/2016		0.0026 (J)	0.0001 (J)	0.0002 (J)		
12/7/2016	0.0021 (J)	0.0035				
12/8/2016			0.0001 (J)	0.0001 (J)		
3/28/2017						0.0002 (J)
3/29/2017	0.0017 (J)	0.0026 (J)		0.0002 (J)		
3/30/2017			0.0002 (J)		0.0004 (J)	
5/12/2017					0.0004 (J)	0.0002 (J)
6/15/2017					0.0004 (J)	0.0001 (J)
7/11/2017						0.0001 (J)
7/12/2017	0.0018 (J)	0.0025 (J)	0.0001 (J)		0.0004 (J)	
7/13/2017				0.0002 (J)		
10/24/2017						0.0002 (J)
10/25/2017	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)		
10/26/2017					0.0004 (J)	
2/27/2018						<0.003
2/28/2018	<0.003	<0.003	<0.003	<0.003		
3/1/2018					<0.003	
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)

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-19	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4
9/20/2022					0.00037 (J)	
2/3/2023						0.00033 (J)
2/6/2023	0.0017			0.0001 (J)	0.00038 (J)	
2/7/2023		0.0073	0.00016 (J)			
9/8/2023	0.0015					
9/11/2023		0.0067	0.00016 (J)	0.00012 (J)	0.00035 (J)	
9/13/2023						0.0004 (J)
Mean	0.001842	0.004274	0.0003053	0.0003016	0.0005437	0.0003828
Std. Dev.	0.0002063	0.002215	0.0004223	0.0004238	0.0003494	0.0004137
Upper Lim.	0.001963	0.005571	0.0002	0.0002	0.0005	0.00034
Lower Lim.	0.001721	0.002976	0.00015	0.00013	0.00038	0.0002

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016					0.0018 (J)	0.0045
8/31/2016				0.0054		
9/1/2016		0.0165	0.008			
9/7/2016	0.0021 (J)					
12/6/2016				0.0064	0.0034	0.005
12/8/2016	0.0023 (J)	0.0116	0.0086			
3/28/2017				0.0049		0.0052
3/29/2017					0.0031	
3/30/2017			0.0106			
3/31/2017	0.0025 (J)	0.0112				
7/11/2017				0.005	0.0022 (J)	0.0048
7/13/2017	0.0025 (J)	0.0098	0.0106			
10/24/2017					0.0042	0.0051
10/25/2017	0.0026 (J)			0.0069		
10/26/2017		0.0119	0.0078			
2/27/2018				0.0086	0.0047	0.0057
2/28/2018	<0.003					
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
2/1/2023	0.0022					
2/3/2023		0.0087	0.0062			0.0046

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 2:23 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
2/7/2023				0.0083	0.0007	
9/12/2023		0.0081			0.0014	
9/13/2023	0.0024		0.0065	0.0084		
Mean	0.002389	0.01052	0.008021	0.007739	0.002049	0.005328
Std. Dev.	0.000452	0.002609	0.001331	0.001675	0.001105	0.0006918
Upper Lim.	0.002654	0.01205	0.0088	0.008753	0.002579	0.005746
Lower Lim.	0.002125	0.008993	0.007242	0.006725	0.001368	0.004909

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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)
9/6/2023	0.00035 (J)					
9/8/2023		<0.0005				0.00034 (J)
9/11/2023			0.00072	<0.0005		
9/12/2023					0.001	
Mean	0.00036	0.0004443	0.000815	0.0003243	0.001063	0.00029
Std. Dev.	0.000145	0.0001474	8.586E-05	0.0001683	8.524E-05	4.243E-05
Upper Lim.	0.00059	0.0005	0.000906	0.000251	0.00118	0.000335
Lower Lim.	0.00025	0.00011	0.000724	0.0001375	0.0009462	0.000245

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-82	B-83	B-88	B-92
1/28/2019	<0.0005					
1/30/2019		<0.0005				
9/11/2019	<0.0005					
9/12/2019		<0.0005				
9/23/2019			0.00044 (J)			
10/21/2019		<0.0005	0.00035 (J)	0.00041 (J)		
10/22/2019	0.00014 (J)					
8/14/2020				0.00037 (J)		
8/17/2020			0.00058 (J)		0.0018 (J)	
9/25/2020				0.00026 (J)	0.00022 (J)	
9/28/2020			0.00066 (J)			
3/4/2021				0.00032 (J)		
3/5/2021					0.0065	
9/13/2021					0.0013	
9/14/2021	0.00025 (J)	<0.0005	0.0007			
9/15/2021						0.00096
9/16/2021				0.0003 (J)		
1/20/2022	<0.0005					
1/21/2022				0.0003 (J)		
1/25/2022		<0.0005	0.00072			
1/26/2022						0.001
1/27/2022					0.0036	
9/12/2022						0.0014
9/13/2022				0.00031 (J)		
9/14/2022	0.00018 (J)					
9/16/2022		<0.0005	0.00073		0.0019	
1/31/2023						0.0015
2/2/2023	<0.0005					
2/3/2023				0.0003 (J)		
2/7/2023		<0.0005	0.00081		0.0033	
9/6/2023						0.0008
9/7/2023	0.00028 (J)					
9/11/2023		0.00018 (J)	0.00058			
9/12/2023				0.00027 (J)	0.0026	
Mean	0.0003563	0.00046	0.0006189	0.0003156	0.002653	0.001132
Std. Dev.	0.0001593	0.0001131	0.0001478	4.72E-05	0.001896	0.0003019
Upper Lim.	0.0005	0.0005	0.0007616	0.0003611	0.004662	0.001638
Lower Lim.	0.00014	0.00018	0.0004762	0.00027	0.0006429	0.0006262

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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				0.0012	<0.0005	
9/1/2016						0.0004 (J)
12/6/2016				0.0013	<0.0005	
12/7/2016						0.0003 (J)
3/29/2017				0.0013	<0.0005	0.0003 (J)
7/12/2017				0.0013	<0.0005	0.0004 (J)
10/24/2017				0.0014	<0.0005	
10/25/2017						0.0004 (J)
2/27/2018				0.001	<0.0005	<0.0005
7/11/2018						0.00033 (J)
11/6/2018				0.0012	<0.0005	
11/7/2018						<0.001 (J)
8/27/2019				0.00077 (J)	0.00012 (J)	0.00037 (J)
9/17/2019						0.00035 (J)
10/15/2019				0.00095 (J)	<0.0005	0.00025 (J)
3/2/2020					<0.0005	<0.0005
3/3/2020				0.00095 (J)		
8/11/2020				0.00071 (J)	<0.0005	0.00038 (J)
8/19/2020	0.00077 (J)					
9/22/2020					0.00016 (J)	0.00017 (J)
9/24/2020				0.00055 (J)		
9/28/2020	0.00074 (J)					
3/2/2021					0.00013 (J)	
3/3/2021						0.00016 (J)
3/4/2021				0.00088		
3/9/2021	0.00075 (J)					
9/9/2021					<0.0005	<0.0005
9/10/2021				0.00061		
9/15/2021	0.00088	0.00056	0.0003 (J)			
1/25/2022					0.00016 (J)	<0.0005
1/26/2022	0.00079	0.00055	<0.0005	0.0007		
9/12/2022	0.00084					
9/13/2022		0.00055	0.00031 (J)			
9/15/2022				0.00047 (J)	<0.0005	0.00017 (J)
1/31/2023	0.00089		<0.0005			
2/1/2023		0.00063				
2/2/2023				0.00059		
2/6/2023					0.00015 (J)	<0.0005
9/6/2023	0.001	0.00059	0.00015 (J)			
9/8/2023					0.00014 (J)	
9/11/2023				0.0006		<0.0005
Mean	0.0008325	0.000576	0.000352	0.0009156	0.0003811	0.000399
Std. Dev.	8.844E-05	3.435E-05	0.0001492	0.000306	0.0001732	0.0001828
Upper Lim.	0.0009262	0.0006336	0.000376	0.001101	0.0005	0.0003232
Lower Lim.	0.0007388	0.0005184	0.0001307	0.0007304	0.00015	0.0002176

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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				0.0004 (J)		
9/2/2016						0.0023
9/6/2016	<0.0005	<0.0005				
9/7/2016			0.0003 (J)			
12/7/2016	0.0002 (J)	9E-05 (J)		0.0004 (J)		0.0023
12/8/2016			0.0003 (J)			
3/29/2017				0.0004 (J)		0.0021
3/30/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)		0.0005 (J)	
5/11/2017					0.0004 (J)	
6/15/2017					0.0003 (J)	
7/11/2017					0.0003 (J)	
7/12/2017	<0.0005	<0.0005	0.0002 (J)	0.0004 (J)		0.0021
10/24/2017					0.0003 (J)	
10/25/2017		<0.0005	0.0002 (J)	0.0004 (J)		0.002
11/15/2017	<0.0005					
2/27/2018					<0.0005	
2/28/2018	<0.0005	<0.0005	<0.001	<0.001		0.0018
7/11/2018		<0.0005	0.00029 (J)	0.00039 (J)	0.00018 (J)	0.0018
11/6/2018					<0.001 (J)	
11/7/2018	<0.0005	<0.001 (J)	<0.001	<0.001 (J)		0.0018
8/27/2019			0.00033 (J)		0.00012 (J)	
8/28/2019	<0.0005	<0.0005		0.00033 (J)		
8/29/2019						0.002 (J)
10/16/2019	<0.0005			0.00034 (J)		
10/17/2019		<0.0005			0.00013 (J)	0.0017 (J)
10/18/2019			0.00029 (J)			
3/3/2020	<0.0005	0.00012 (J)		0.00037 (J)	0.00014 (J)	
3/4/2020			0.00028 (J)			0.0026
8/11/2020				0.0003 (J)	<0.0005	
8/12/2020	<0.0005					
8/13/2020		0.00013 (J)				0.0021 (J)
8/14/2020			0.00029 (J)			
9/22/2020				0.00036 (J)		0.0014 (J)
9/23/2020	<0.0005	<0.0005			0.00013 (J)	
9/24/2020			0.00024 (J)			
3/2/2021	<0.0005	<0.0005		0.00035 (J)	<0.0005	0.0025
3/3/2021			0.00023 (J)			
9/9/2021	<0.0005	<0.0005		0.00037 (J)	<0.0005	
9/10/2021						0.0012
9/13/2021			0.00023 (J)			
1/20/2022					<0.0005	
1/21/2022						0.0028
1/24/2022		<0.0005	0.00027 (J)			
1/25/2022	<0.0005			0.00041 (J)		
9/13/2022		<0.0005				
9/14/2022			0.00024 (J)	0.00032 (J)		
9/15/2022	<0.0005					0.0021
9/20/2022					<0.0005	
2/1/2023	<0.0005					
2/2/2023		<0.0005				
2/6/2023			0.00028 (J)	0.00029 (J)	<0.0005	
2/7/2023						0.0027

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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
9/8/2023	<0.0005	<0.0005		0.00034 (J)		
9/11/2023						0.0038
9/13/2023			0.00019 (J)		<0.0005	
Mean	0.00046	0.0004437	0.0002874	0.0003774	0.0003947	0.002163
Std. Dev.	0.0001182	0.0002118	8.465E-05	5.626E-05	0.0002134	0.0005727
Upper Lim.	0.0005	0.001	0.0003	0.0004103	0.0005	0.002499
Lower Lim.	0.0002	0.00013	0.00023	0.0003444	0.00014	0.001828

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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						0.0017
9/2/2016	0.0006 (J)	0.0003 (J)				
9/7/2016					0.0007 (J)	
12/8/2016	0.0006 (J)	0.0004 (J)			0.0003 (J)	0.0002 (J)
3/28/2017				0.0006 (J)		
3/29/2017		0.0004 (J)				
3/30/2017	0.0008 (J)		0.0002 (J)			
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	0.0006 (J)		0.0002 (J)			
7/13/2017		0.0005 (J)			0.0008 (J)	0.0017
10/24/2017				0.0007 (J)		
10/25/2017	0.0005 (J)	0.0007 (J)			0.0005 (J)	
10/26/2017			0.0003 (J)			0.0015
2/27/2018				<0.001		
2/28/2018	<0.0005	<0.001			<0.001	
3/1/2018			<0.0005			0.0025
7/11/2018	0.00054 (J)				0.0024	
7/12/2018		0.00091 (J)	0.00028 (J)			0.0021
11/6/2018				<0.001 (J)		
11/7/2018	<0.001 (J)	<0.001 (J)			<0.001 (J)	0.0016
11/8/2018			<0.001 (J)			
8/27/2019				0.00072 (J)		
8/28/2019					0.0015 (J)	
8/29/2019	0.00087 (J)	0.00053 (J)	0.00022 (J)			0.0021 (J)
10/15/2019				0.00077 (J)		
10/17/2019	0.0006 (J)				0.00058 (J)	0.0033
10/18/2019		0.00056 (J)	0.00022 (J)			
3/2/2020				0.00088 (J)		
3/3/2020	0.00063 (J)	0.00061 (J)				
3/4/2020			0.00024 (J)		0.00037 (J)	0.0017 (J)
8/12/2020				0.0008 (J)		0.001 (J)
8/13/2020			0.00027 (J)		0.0013 (J)	
8/14/2020	0.00054 (J)	0.00057 (J)				
9/22/2020				0.00065 (J)	0.0007 (J)	
9/23/2020						0.0013 (J)
9/24/2020	0.00073 (J)	0.00058 (J)	0.00018 (J)			
3/1/2021				0.00085		
3/3/2021	0.00044 (J)	0.0005	0.00015 (J)		0.00038 (J)	0.0016
9/9/2021	0.00012 (J)		0.00019 (J)			
9/10/2021		0.00061		0.0009		0.0014
9/13/2021					0.00042 (J)	
1/20/2022	<0.0005	0.00052	0.00012 (J)		0.00038 (J)	
1/21/2022						0.0019
1/24/2022				0.00098		
9/13/2022					0.00069	0.0011
9/15/2022	0.00029 (J)					
9/16/2022		0.00065				
9/19/2022				0.00091		
9/20/2022			0.00017 (J)			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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
2/1/2023					0.00075	
2/3/2023				0.001		0.0013
2/6/2023		0.00045 (J)	0.00021 (J)			
2/7/2023	0.00059					
9/11/2023	0.00054	0.0006	<0.0005			
9/12/2023						0.00083
9/13/2023				0.00099	0.00068	
Mean	0.0005784	0.0005468	0.0002868	0.0007472	0.0007553	0.001623
Std. Dev.	0.0001936	0.0001295	0.0002001	0.0001748	0.000504	0.0006609
Upper Lim.	0.0006025	0.0006227	0.0003	0.000853	0.0008851	0.00201
Lower Lim.	0.000354	0.000471	0.00018	0.0006415	0.0004782	0.001236

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 2:23 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			0.0019	0.0004 (J)
8/31/2016		0.0002 (J)		
9/1/2016	0.0013			
12/6/2016		0.0004 (J)	0.0025	0.0005 (J)
12/8/2016	0.0042			
3/28/2017		0.0002 (J)		0.0005 (J)
3/29/2017			0.0024	
3/30/2017	0.0089			
7/11/2017		0.0003 (J)	0.0021	0.0005 (J)
7/13/2017	0.0033			
10/24/2017			0.0029	0.0006 (J)
10/25/2017		0.0006 (J)		
10/26/2017	0.0032			
2/27/2018		<0.001	0.0029	<0.001
3/2/2018	0.0049			
7/11/2018				0.00067 (J)
7/12/2018	0.0032			
11/6/2018		<0.001 (J)	0.0027	<0.001 (J)
11/7/2018	0.0031			
8/27/2019		0.00082 (J)		0.00071 (J)
8/28/2019			0.0022 (J)	
8/29/2019	0.003			
10/16/2019		0.00069 (J)	0.0022 (J)	
10/17/2019				0.00064 (J)
10/18/2019	0.0028			
3/2/2020		0.00089 (J)		
3/3/2020			0.002 (J)	0.00059 (J)
3/4/2020	0.0036			
8/11/2020				0.00059 (J)
8/12/2020		0.00079 (J)	0.0021 (J)	
8/13/2020	0.0028			
9/22/2020		0.00072 (J)		0.00059 (J)
9/23/2020	0.0025		0.0018 (J)	
3/2/2021		0.00075	0.0017	0.00057
3/3/2021	0.0033			
9/10/2021	0.0028	0.00093		0.00053
9/13/2021			0.002	
1/24/2022	0.0029	0.00094		
1/25/2022			0.0016	
1/26/2022				0.00059
9/13/2022	0.0026			
9/14/2022		0.00087		
9/15/2022			0.0011	
9/19/2022				0.00076
2/3/2023	0.0024			0.00053
2/7/2023		0.0012	0.00087	
9/12/2023			0.0015	
9/13/2023	0.0026	0.0013		
Mean	0.003337	0.0007	0.002026	0.0005706
Std. Dev.	0.001533	0.0003116	0.0005554	8.734E-05
Upper Lim.	0.0036	0.0008886	0.002362	0.0006234
Lower Lim.	0.0026	0.0005114	0.00169	0.0005177

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-106D	B-56	B-62
1/30/2019						<0.005
9/11/2019						<0.005
10/21/2019						0.00098 (J)
8/13/2020						<0.005
8/17/2020	<0.005				0.0014 (J)	
9/24/2020						<0.005
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			
3/3/2021					0.00059 (J)	
3/4/2021			<0.005	<0.005		
3/5/2021		<0.005				
3/8/2021	0.00057 (J)					
3/12/2021						<0.005
9/9/2021						<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					<0.005
9/13/2022			<0.005			
9/16/2022		<0.005		<0.005	<0.005	
2/2/2023	<0.005					<0.005
2/3/2023		<0.005	<0.005			
2/7/2023				0.0013 (J)	<0.005	
9/6/2023	<0.005					
9/7/2023						<0.005
9/8/2023		<0.005			<0.005	
9/11/2023				<0.005		
9/13/2023			<0.005			
Mean	0.003939	0.004486	0.004512	0.004471	0.003549	0.004635
Std. Dev.	0.001968	0.001361	0.001379	0.001398	0.002018	0.001212
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00057	0.0014	0.0011	0.0013	0.00059	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-82	B-83	B-88	B-93
1/28/2019	<0.005					
9/11/2019	<0.005					
9/18/2019		0.00068 (J)				
9/23/2019			0.0011 (J)			
10/21/2019			<0.005	0.0017 (J)		
10/22/2019	0.00064 (J)					
10/24/2019		<0.005				
8/13/2020		0.0021 (J)				
8/14/2020				0.005 (J)		
8/17/2020			<0.005		0.0014 (J)	
8/19/2020						0.00057 (J)
9/24/2020		0.0007 (J)				
9/25/2020				0.0051 (J)	0.00085 (J)	
9/28/2020			<0.005			0.00066 (J)
3/4/2021		0.00098 (J)		0.0049 (J)		
3/5/2021					0.0017 (J)	
3/9/2021						<0.005
9/13/2021					<0.005	
9/14/2021	<0.005	<0.005	<0.005			
9/15/2021						<0.005
9/16/2021				0.003 (J)		
1/20/2022	<0.005	<0.005				
1/21/2022				0.0034 (J)		
1/25/2022			<0.005			
1/26/2022						0.0011 (J)
1/27/2022					<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	
1/31/2023						<0.005
2/2/2023	<0.005					
2/3/2023				0.0026 (J)		
2/6/2023		<0.005				
2/7/2023			0.0013 (J)		<0.005	
9/6/2023						<0.005
9/7/2023	0.0013 (J)					
9/11/2023			<0.005			
9/12/2023		<0.005		0.0022 (J)	<0.005	
Mean	0.003992	0.003446	0.004156	0.003344	0.003619	0.003416
Std. Dev.	0.001874	0.002043	0.001676	0.001334	0.00192	0.002191
Upper Lim.	0.005	0.005	0.005	0.004633	0.005	0.005
Lower Lim.	0.00064	0.0007	0.0011	0.002056	0.00085	0.00057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 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		<0.005	<0.005			
9/1/2016				<0.005		
9/6/2016					<0.005	<0.005
12/6/2016		<0.005	<0.005			
12/7/2016				<0.005	<0.005	<0.005
3/29/2017		0.0008 (J)	<0.005	<0.005		
3/30/2017					0.0009 (J)	0.0005 (J)
7/12/2017		0.0006 (J)	<0.005	<0.005	<0.005	<0.005
10/24/2017		0.0007 (J)	<0.005			
10/25/2017				<0.005		<0.005
11/15/2017					<0.005	
2/27/2018		<0.005	<0.005	<0.005		
2/28/2018					<0.005	<0.005
7/11/2018				<0.005		<0.005
11/6/2018		<0.005	<0.005			
11/7/2018				<0.005	<0.005	<0.01 (J)
8/27/2019		0.00083 (J)	0.0006 (J)	<0.005		
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)
3/2/2020			0.0006 (J)	<0.005		
3/3/2020		0.00092 (J)			0.00066 (J)	0.00046 (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)
9/22/2020			0.00058 (J)	<0.005		
9/23/2020					0.00059 (J)	<0.005
9/24/2020		0.001 (J)				
3/2/2021			<0.005		<0.005	<0.005
3/3/2021				0.00099 (J)		
3/4/2021		0.0009 (J)				
9/9/2021			<0.005	<0.005	<0.005	<0.005
9/10/2021		<0.005				
9/15/2021	<0.005					
1/24/2022						<0.005
1/25/2022			<0.005	<0.005	<0.005	
1/26/2022	0.0013 (J)	0.0011 (J)				
9/13/2022	<0.005					<0.005
9/15/2022		<0.005	<0.005	<0.005	<0.005	
1/31/2023	0.0014 (J)					
2/1/2023					<0.005	
2/2/2023		0.0013 (J)				<0.005
2/6/2023			<0.005	<0.005		
9/6/2023	<0.005					
9/8/2023			<0.005		<0.005	<0.005
9/11/2023		0.0016 (J)		<0.005		
Mean	0.00354	0.002306	0.004022	0.004596	0.004049	0.004544
Std. Dev.	0.001999	0.001973	0.001883	0.001242	0.001831	0.002128
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.01
Lower Lim.	0.0013	0.0008	0.00061	0.00099	0.0009	0.0048

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0031 (J)				
9/2/2016				0.0017 (J)	<0.005	0.0012 (J)
9/7/2016	0.0026 (J)					
12/7/2016		<0.01		<0.005		
12/8/2016	0.0025 (J)				<0.005	<0.005
3/29/2017		0.0025 (J)		0.0016 (J)		<0.005
3/30/2017	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	0.0022 (J)	0.0023 (J)		<0.005	0.0006 (J)	
7/13/2017						<0.005
10/24/2017			<0.005			
10/25/2017	0.0024 (J)	0.0024 (J)		0.0015 (J)	<0.005	<0.005
2/27/2018			<0.005			
2/28/2018	<0.01	<0.01		<0.005	<0.005	<0.005
7/11/2018	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	
7/12/2018						<0.005
11/6/2018			<0.005			
11/7/2018	<0.01	<0.01 (J)		<0.01 (J)	<0.005	<0.005
8/27/2019	0.0031 (J)		0.0004 (J)			
8/28/2019		0.0028 (J)				
8/29/2019				0.0017 (J)	0.00041 (J)	<0.005
10/16/2019		0.0024 (J)				
10/17/2019			0.00046 (J)	0.0015 (J)	<0.005	
10/18/2019	0.0027 (J)					<0.005
3/3/2020		0.0028 (J)	<0.005		0.00048 (J)	<0.005
3/4/2020	0.0035 (J)			0.0032 (J)		
8/11/2020		0.0024 (J)	0.00067 (J)			
8/13/2020				0.0023 (J)		
8/14/2020	0.0033 (J)				<0.005	<0.005
9/22/2020		0.003 (J)		0.0013 (J)		
9/23/2020			<0.005			
9/24/2020	0.0029 (J)				0.00096 (J)	<0.005
3/2/2021		0.0024 (J)	0.00064 (J)	0.0022 (J)		
3/3/2021	0.0028 (J)				0.002 (J)	<0.005
9/9/2021		0.003 (J)	<0.005		<0.005	
9/10/2021				<0.005		<0.005
9/13/2021	0.0027 (J)					
1/20/2022			<0.005		<0.005	<0.005
1/21/2022				0.0021 (J)		
1/24/2022	0.0029 (J)					
1/25/2022		0.0029 (J)				
9/14/2022	0.0023 (J)	0.0024 (J)				
9/15/2022				0.0014 (J)	<0.005	
9/16/2022						<0.005
9/20/2022			<0.005			
2/6/2023	0.0026 (J)	0.0022 (J)	<0.005			<0.005
2/7/2023				0.0023 (J)	<0.005	
9/8/2023		0.0021 (J)				
9/11/2023				0.0026 (J)	<0.005	<0.005
9/13/2023	0.0027 (J)		<0.005			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 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
Mean	0.002958	0.003732	0.003588	0.003179	0.003682	0.0048
Std. Dev.	0.0007897	0.002804	0.002136	0.00219	0.002019	0.0008718
Upper Lim.	0.0033	0.0031	0.005	0.005	0.005	0.005
Lower Lim.	0.0025	0.0023	0.00064	0.0016	0.0006	0.0012

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.005
9/1/2016				<0.005	<0.005	
9/7/2016			<0.005			
12/6/2016						<0.005
12/8/2016			<0.005	<0.005	<0.005	
3/28/2017		0.0005 (J)				<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				<0.005
7/12/2017	0.0007 (J)					
7/13/2017			0.0008 (J)	<0.005	0.0007 (J)	
10/24/2017		<0.005				
10/25/2017			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			
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	
11/6/2018		<0.005				<0.005
11/7/2018			<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	<0.005			<0.005	<0.005	
10/15/2019		<0.005				
10/16/2019						<0.005
10/17/2019			0.00041 (J)	<0.005		
10/18/2019	0.00041 (J)				<0.005	
3/2/2020		<0.005				0.00045 (J)
3/4/2020	0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)	
8/12/2020		<0.005		<0.005		<0.005
8/13/2020	0.00085 (J)		0.0021 (J)		<0.005	
9/22/2020		<0.005	0.001 (J)			<0.005
9/23/2020				<0.005	<0.005	
9/24/2020	0.00084 (J)					
3/1/2021		<0.005				
3/2/2021						<0.005
3/3/2021	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			
1/21/2022				<0.005		
1/24/2022		<0.005			<0.005	<0.005
9/13/2022			<0.005	<0.005	<0.005	
9/14/2022						<0.005
9/19/2022		<0.005				
9/20/2022	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
2/1/2023			<0.005			
2/3/2023		<0.005		<0.005	<0.005	
2/6/2023	<0.005					
2/7/2023						<0.005
9/11/2023	<0.005					
9/12/2023				<0.005		
9/13/2023		<0.005	<0.005		<0.005	<0.005
Mean	0.002779	0.00475	0.003486	0.004774	0.004532	0.004747
Std. Dev.	0.002176	0.001061	0.002065	0.0009865	0.001404	0.001072
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0007	0.0005	0.0008	0.0007	0.0007	0.00045

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.005	<0.005
12/6/2016	<0.005	<0.005
3/28/2017		0.001 (J)
3/29/2017	0.0004 (J)	
7/11/2017	<0.005	<0.005
10/24/2017	<0.005	<0.005
2/27/2018	<0.005	<0.005
7/11/2018		<0.005
11/6/2018	<0.005	<0.005
8/27/2019		0.00048 (J)
8/28/2019	<0.005	
10/16/2019	0.0013 (J)	
10/17/2019		0.00051 (J)
3/3/2020	0.00061 (J)	0.0057 (J)
8/11/2020		0.00061 (J)
8/12/2020	0.0028 (J)	
9/22/2020		<0.005
9/23/2020	0.00086 (J)	
3/2/2021	0.0015 (J)	0.00059 (J)
9/10/2021		<0.005
9/13/2021	<0.005	
1/25/2022	<0.005	
1/26/2022		0.0029 (J)
9/15/2022	<0.005	
9/19/2022		<0.005
2/3/2023		0.0013 (J)
2/7/2023	<0.005	
9/12/2023	<0.005	
Mean	0.003748	0.003505
Std. Dev.	0.001881	0.002082
Upper Lim.	0.005	0.005
Lower Lim.	0.0013	0.00061

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 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	
9/6/2023	0.031					
9/8/2023		0.0032 (J)				
9/11/2023			0.01		<0.005	
9/12/2023						0.001 (J)
9/13/2023				0.18		
Mean	0.04435	0.002914	0.01288	0.155	0.003161	0.0009886
Std. Dev.	0.02859	0.0005113	0.001727	0.03742	0.002295	0.0003684
Upper Lim.	0.07002	0.003522	0.01471	0.1915	0.005	0.001426
Lower Lim.	0.01754	0.002307	0.01104	0.1177	0.00056	0.0005509

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-56	B-62	B-63	B-66	B-77
1/28/2019				0.053		
1/30/2019			<0.005		<0.01	
9/11/2019			0.0003 (J)	0.043		
9/12/2019					0.006	
9/18/2019						0.0031 (J)
10/21/2019			0.00031 (J)		0.0074	
10/22/2019				0.046		
10/24/2019						0.0021 (J)
8/13/2020			<0.005			0.0011 (J)
8/17/2020		0.042				
9/24/2020			<0.005			0.0004 (J)
9/28/2020		0.042				
12/9/2020	0.00076 (J)					
1/12/2021	0.0007 (J)					
3/3/2021		0.05				
3/4/2021						0.0017 (J)
3/5/2021	0.00052 (J)					
3/12/2021			<0.005	0.046	0.01	
9/9/2021			<0.005			
9/13/2021		0.047				
9/14/2021	<0.005			0.037	0.012	<0.005
1/20/2022			<0.005	0.039		<0.005
1/24/2022	0.00041 (J)					
1/25/2022					0.013	
1/27/2022		0.052				
9/8/2022			<0.005			
9/9/2022			<0.005			
9/13/2022						<0.005 (D)
9/14/2022	<0.005			0.0465 (D)		
9/16/2022		0.051			0.012 (D)	
2/2/2023			<0.005	0.027		
2/6/2023						<0.005
2/7/2023	0.0004 (J)	0.059			0.015	
9/7/2023			<0.005	0.047		
9/8/2023		0.057				
9/11/2023					0.02	
9/12/2023						<0.005
9/13/2023	<0.005					
Mean	0.002224	0.05	0.004217	0.04272	0.01116	0.00334
Std. Dev.	0.002302	0.006234	0.001828	0.00753	0.004714	0.001877
Upper Lim.	0.005	0.05661	0.005	0.04999	0.01571	0.005
Lower Lim.	0.0004	0.04339	0.00031	0.03545	0.006605	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 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	0.0038 (J)					
10/21/2019	0.0089	0.018				
11/22/2019			0.018 (J)			
12/19/2019					0.066	
8/14/2020		0.021				
8/17/2020	0.0028 (J)		0.0031 (J)			
8/19/2020					0.068	
9/25/2020		0.0073	0.0015 (J)			
9/28/2020	0.0053				0.064	
3/4/2021		0.0099				
3/5/2021			0.022			
3/9/2021					0.061	
3/12/2021	0.0021 (J)					
9/13/2021			0.0018 (J)			
9/14/2021	0.0015 (J)					
9/15/2021				0.063	0.062	0.003 (J)
9/16/2021		0.011				
1/21/2022		0.011				
1/25/2022	0.0039 (J)					
1/26/2022				0.071	0.064	0.003 (J)
1/27/2022			0.0038 (J)			
9/12/2022				0.073	0.057	
9/13/2022		0.012				0.0029 (J)
9/16/2022	0.00175 (JD)		0.00135 (JD)			
1/31/2023				0.08	0.067	
2/1/2023						0.0033 (J)
2/3/2023		0.012				
2/7/2023	0.0028 (J)		0.0031 (J)			
9/6/2023				0.034	0.041	0.0029 (J)
9/11/2023	0.0024 (J)					
9/12/2023		0.015	0.0022 (J)			
Mean	0.003525	0.01302	0.006317	0.0642	0.06111	0.00302
Std. Dev.	0.002207	0.004259	0.007864	0.01794	0.008253	0.0001643
Upper Lim.	0.005192	0.01713	0.022	0.09426	0.06738	0.0033
Lower Lim.	0.0018	0.00891	0.00135	0.03414	0.05571	0.0029

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 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		0.193	<0.01			
9/1/2016				0.0021 (J)		
9/6/2016					<0.005	0.0042 (J)
12/6/2016		0.2	0.0006 (J)			
12/7/2016				0.0026 (J)	<0.005	0.0028 (J)
3/29/2017		0.184	<0.01	0.0026 (J)		
3/30/2017					0.0005 (J)	0.0024 (J)
7/12/2017		0.177	<0.01	0.0033 (J)	0.0004 (J)	0.002 (J)
10/24/2017		0.175	<0.01			
10/25/2017				0.0021 (J)		0.0019 (J)
11/15/2017					<0.005	
2/27/2018		0.2	<0.01	<0.01		
2/28/2018					<0.005	<0.01
7/11/2018				0.002 (J)		0.0018 (J)
11/6/2018		0.2	<0.01			
11/7/2018				<0.01 (J)	<0.005	0.025
8/27/2019		0.13	0.00076 (J)	0.0021 (J)		
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)
2/17/2020	<0.005					
3/2/2020			0.00078 (J)	0.029		
3/3/2020		0.18			<0.005	0.0018 (J)
8/11/2020		0.11	0.00055 (J)	0.006		
8/12/2020					<0.005	
8/13/2020						0.0024 (J)
9/22/2020			0.00098 (J)	0.013		
9/23/2020					0.00038 (J)	0.0018 (J)
9/24/2020		0.086				
3/2/2021			0.00065 (J)		<0.005	0.0013 (J)
3/3/2021				0.01		
3/4/2021		0.071				
3/15/2021	<0.005					
9/9/2021			0.00081 (J)	0.034	<0.005	0.0016 (J)
9/10/2021		0.076				
9/15/2021	0.0048 (J)					
1/24/2022						0.0015 (J)
1/25/2022			0.0015 (J)	0.018	<0.005	
1/26/2022	<0.005	0.099				
9/13/2022	0.00063 (J)					0.0016 (J)
9/15/2022		0.055	0.001 (J)	0.025	<0.005	
1/31/2023	<0.005					
2/1/2023					<0.005	
2/2/2023		0.11				0.0017 (J)
2/6/2023			0.0013 (J)	0.016		
9/6/2023	<0.005					
9/8/2023			0.0011 (J)		<0.005	0.0018 (J)
9/11/2023		0.11		0.017		
Mean	0.004347	0.1403	0.003924	0.01042	0.004238	0.003363
Std. Dev.	0.001641	0.05094	0.004428	0.00976	0.001754	0.005323

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 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
Upper Lim.	0.005	0.193	0.01	0.01387	0.005	0.0028
Lower Lim.	0.00063	0.086	0.00065	0.004433	0.0005	0.0016

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0553				
9/2/2016				0.497	0.0085 (J)	0.0102
9/7/2016	0.0247					
12/7/2016		0.0561		0.614		
12/8/2016	0.029				0.0095 (J)	0.0079 (J)
3/29/2017		0.0534		0.443		0.0097 (J)
3/30/2017	0.0283		0.0255		0.0076 (J)	
5/11/2017			0.0284			
6/15/2017			0.0238			
7/11/2017			0.0238			
7/12/2017	0.023	0.0489		0.538	0.0092 (J)	
7/13/2017						0.0106
10/24/2017			0.0292			
10/25/2017	0.0259	0.0514		0.432	0.0092 (J)	0.0094 (J)
2/27/2018			0.042			
2/28/2018	0.02	0.0511		0.459	<0.01	<0.01
7/11/2018	0.025	0.051	0.02	0.47	0.0097 (J)	
7/12/2018						0.011
11/6/2018			0.024			
11/7/2018	<0.01 (J)	0.048		0.42	<0.01 (J)	<0.01 (J)
8/27/2019	0.031		0.0088			
8/28/2019		0.048				
8/29/2019				0.66	0.01	0.0094
10/16/2019		0.046				
10/17/2019			0.0084	0.57	0.01	
10/18/2019	0.023					0.0084
3/3/2020		0.054	0.0073		0.01	0.0098
3/4/2020	0.023			0.84		
8/11/2020		0.049	0.0064			
8/13/2020				0.73		
8/14/2020	0.026				0.0098	0.0087
9/22/2020		0.051		0.47		
9/23/2020			0.0062			
9/24/2020	0.028				0.01	0.01
3/2/2021		0.051	0.0055	0.77		
3/3/2021	0.016				0.0087	0.0078
9/9/2021		0.055	0.0048 (J)		0.0096	
9/10/2021				0.45		0.0076
9/13/2021	0.019					
1/20/2022			0.004 (J)		0.0076	0.0075
1/21/2022				0.95		
1/24/2022	0.019					
1/25/2022		0.054				
9/14/2022	0.016	0.052				
9/15/2022				0.75	0.0081	
9/16/2022						0.0098
9/20/2022			0.0028 (J)			
2/6/2023	0.017	0.055	0.0024 (J)			0.0058
2/7/2023				1	0.0088	
9/8/2023		0.051				
9/11/2023				1.4	0.0097	0.0074
9/13/2023	0.02		0.0024 (J)			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 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
Mean	0.02205	0.05164	0.01451	0.6559	0.008737	0.008474
Std. Dev.	0.006093	0.002838	0.0119	0.2549	0.001529	0.001794
Upper Lim.	0.02561	0.0533	0.01871	0.7547	0.009608	0.009524
Lower Lim.	0.01848	0.04998	0.006293	0.506	0.008469	0.007423

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.055
9/1/2016				0.536	0.539	
9/7/2016			0.0695			
12/6/2016						0.0432
12/8/2016			0.0652	0.381	0.575	
3/28/2017		0.0018 (J)				0.04
3/30/2017	<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	<0.005					
7/13/2017			0.0481	0.396	0.531	
10/24/2017		0.0017 (J)				
10/25/2017			0.0435			0.0209
10/26/2017	<0.005			0.383	0.482	
2/27/2018		<0.01				0.024
2/28/2018			0.0167			
3/1/2018	<0.005			0.401		
3/2/2018					0.49	
7/11/2018			0.019			
7/12/2018	<0.005			0.36	0.46	
11/6/2018		<0.01 (J)				0.019
11/7/2018			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	0.00036 (J)			0.28	0.42	
10/15/2019		0.0018 (J)				
10/16/2019						0.022
10/17/2019			0.03	0.26		
10/18/2019	<0.005				0.41	
3/2/2020		0.0021 (J)				0.028
3/4/2020	0.00043 (J)		0.014	0.28	0.42	
8/12/2020		0.0018 (J)		0.21		0.021
8/13/2020	0.00048 (J)		0.025		0.35	
9/22/2020		0.0014 (J)	0.014			0.02
9/23/2020				0.17	0.37	
9/24/2020	<0.005					
3/1/2021		0.002 (J)				
3/2/2021						0.021
3/3/2021	0.00039 (J)		0.0087	0.2	0.36	
9/9/2021	0.00049 (J)					
9/10/2021		0.0019 (J)		0.23	0.36	0.022
9/13/2021			0.008			
1/20/2022	0.00058 (J)		0.0056			
1/21/2022				0.24		
1/24/2022		0.0019 (J)			0.34	0.025
9/13/2022			0.0069	0.21	0.31	
9/14/2022						0.027
9/19/2022		0.0018 (J)				
9/20/2022	0.00053 (J)					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
2/1/2023			0.0068			
2/3/2023		0.0018 (J)		0.21	0.31	
2/6/2023	0.00064 (J)					
2/7/2023						0.021
9/11/2023	0.00074 (J)					
9/12/2023				0.18		
9/13/2023		0.0018 (J)	0.008		0.31	0.016
Mean	0.002892	0.002117	0.02581	0.2964	0.4258	0.02668
Std. Dev.	0.002826	0.001065	0.02042	0.09827	0.08964	0.01021
Upper Lim.	0.005	0.002	0.03424	0.3539	0.4783	0.0351
Lower Lim.	0.00043	0.0017	0.01286	0.2388	0.3733	0.02

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0568	0.0896
12/6/2016	0.0873	0.122
3/28/2017		0.124
3/29/2017	0.0902	
7/11/2017	0.0601	0.136
10/24/2017	0.123	0.151
2/27/2018	0.126	0.163
7/11/2018		0.18
11/6/2018	0.077	0.2
8/27/2019		0.24
8/28/2019	0.051	
10/16/2019	0.054	
10/17/2019		0.21
3/3/2020	0.044	0.2
8/11/2020		0.22
8/12/2020	0.053	
9/22/2020		0.16
9/23/2020	0.04	
3/2/2021	0.033	0.18
9/10/2021		0.21
9/13/2021	0.028	
1/25/2022	0.019	
1/26/2022		0.22
9/15/2022	0.0046 (J)	
9/19/2022		0.25
2/3/2023		0.21
2/7/2023	0.0018 (J)	
9/12/2023	0.003 (J)	
Mean	0.05288	0.1814
Std. Dev.	0.03705	0.04426
Upper Lim.	0.07529	0.2082
Lower Lim.	0.03046	0.1546

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 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)	
9/6/2023	0.326 (U)					
9/8/2023		1.57				
9/11/2023			1.25		0.61 (U)	
9/12/2023						0.907 (U)
9/13/2023				13.9		
Mean	0.7325	1.532	0.9435	13.25	0.6599	1.098
Std. Dev.	0.3792	0.5718	0.4151	2.789	0.1484	0.5624
Upper Lim.	1.134	2.211	1.74	16.21	0.8362	1.766
Lower Lim.	0.3305	0.8531	0.61	10.3	0.4835	0.43

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-56	B-62	B-63	B-77
1/28/2019					2.14 (U)	
1/30/2019				1.97 (U)		
10/21/2019				1.82		
10/22/2019					1.28 (U)	
10/24/2019						1.87
8/13/2020				1.63		2.17
8/17/2020			1.15 (U)			
9/24/2020				1.28 (U)		0.761 (U)
9/28/2020			1.39			
12/9/2020	1.31 (U)	12.3				
1/12/2021		9.63				
3/3/2021			1.01 (U)			
3/4/2021	2.02					2.16
3/5/2021		9.05				
3/12/2021				1.18 (U)		
9/9/2021				1.7		
9/13/2021			0.854 (U)			
9/14/2021	0.917 (U)	4.39			1.68	0.617 (U)
1/20/2022				1.71	0.846 (U)	0.92
1/24/2022	0.812 (U)	5.68				
1/27/2022			0.831 (U)			
9/9/2022				1.96		
9/13/2022						1.11
9/14/2022		6.23			1.61	
9/15/2022	1.36					
9/16/2022			0.752 (U)			
2/2/2023				1.6	1.01	
2/6/2023						0.747 (U)
2/7/2023	0.975	6.24	1.01 (U)			
9/7/2023				2.24	0.988 (U)	
9/8/2023			0.859 (U)			
9/12/2023						1.16
9/13/2023	1.12	8.6				
Mean	1.216	7.765	0.982	1.709	1.365	1.279
Std. Dev.	0.4074	2.586	0.2082	0.3175	0.4663	0.6205
Upper Lim.	1.7	10.51	1.203	1.992	1.919	1.854
Lower Lim.	0.7324	5.024	0.7613	1.426	0.811	0.7112

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 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
10/21/2019	0.63 (U)	0.792 (U)				
8/14/2020		0.95 (U)				
8/17/2020	0.662 (U)		2.47			
8/19/2020					1.19 (U)	
9/25/2020		0.0359 (U)	0.925 (U)			
9/28/2020	0.747 (U)				1.54	
3/4/2021		1.15 (U)				
3/5/2021			2.84			
3/9/2021					0.786 (U)	
9/13/2021			0.771 (U)			
9/14/2021	1.03 (U)					
9/15/2021				1.39	1.84	2.11
9/16/2021		0.442 (U)				
1/21/2022		0.549 (U)				
1/25/2022	0.33 (U)					
1/26/2022				1.27 (U)	0.758 (U)	1.47 (U)
1/27/2022			1.18			
9/12/2022				2.34	1.09	
9/13/2022		0.893 (U)				1.11
9/16/2022	0.694 (U)		1.25			
1/31/2023				2.04	1.68	
2/1/2023						1.33
2/3/2023		0.279 (U)				
2/7/2023	0.776 (U)		1.77			
9/6/2023				1.41	1.05	1.06 (U)
9/11/2023	0.212 (U)					
9/12/2023		0.0781 (U)	1.16			
Mean	0.6351	0.5743	1.546	1.69	1.242	1.416
Std. Dev.	0.2576	0.3973	0.7498	0.4716	0.4041	0.422
Upper Lim.	0.9082	0.958	2.34	2.48	1.67	2.123
Lower Lim.	0.362	0.1907	0.751	0.8997	0.8134	0.7089

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15
8/31/2016	1.08	1.09			0.997 (U)	
9/1/2016			1.11			
9/6/2016				1.32		0.731 (U)
12/6/2016	1.31	0.409 (U)			0.659 (U)	
12/7/2016			2.66	1.76		1.73
3/29/2017	1.24	0.727	0.0726 (U)		0.313 (U)	
3/30/2017				1.59		0.276 (U)
7/12/2017	0.831	0.85 (U)	0.538 (U)	1.36	1.03 (U)	0.584 (U)
10/24/2017	0.838 (U)	0.98 (U)				
10/25/2017			0.216 (U)		0.607 (U)	0.454 (U)
11/15/2017				1.08 (U)		
2/27/2018	1.55	1.14	0.83		0.695 (U)	
2/28/2018				0.721 (U)		1.25
7/10/2018	1.65	0.495 (U)		0.746 (U)		
7/11/2018			0.728 (U)		1.04 (U)	2.13
11/6/2018	1.46	1.41				
11/7/2018			0.414 (U)	1.22 (U)	0.593 (U)	0.786 (U)
8/27/2019	1.58	2.13	0.434 (U)		1.17 (U)	
8/28/2019				1.43		1.01 (U)
10/15/2019	0.831 (U)	0.622 (U)	0.359 (U)			
10/16/2019				1.73	1.04 (U)	
10/17/2019						1.03 (U)
3/2/2020		1.3	1.2 (U)			
3/3/2020	1.69			1.03	1.44	0.293 (U)
8/11/2020	1.45	1.02	0.77 (U)		1.17 (U)	
8/12/2020				1.63		
8/13/2020						3.58
9/22/2020		0.502 (U)	0.515 (U)		1.2 (U)	
9/23/2020				0.935 (U)		1.69 (U)
9/24/2020	1.39					
3/2/2021		0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)
3/3/2021			1.85			
3/4/2021	1.48					
9/9/2021		1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)
9/10/2021	0.882 (U)					
1/24/2022						0.534 (U)
1/25/2022		0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)	
1/26/2022	1.21					
9/13/2022					0.538 (U)	0.761 (U)
9/15/2022	0.953	1.12	0.52 (U)	1.01		
2/1/2023				0.819 (U)	0.794 (U)	
2/2/2023	1.47					0.991
2/6/2023		0.442 (U)	1 (U)			
9/8/2023		1.2		0.771 (U)	0.75 (U)	0.673 (U)
9/11/2023	1.09		1.02			
Mean	1.262	0.9624	0.8819	1.145	0.8299	1.038
Std. Dev.	0.2943	0.4181	0.638	0.3933	0.3168	0.7914
Upper Lim.	1.435	1.207	1.155	1.375	1.015	1.35
Lower Lim.	1.09	0.7176	0.4803	0.9148	0.6444	0.5899

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		1.07 (U)				
9/2/2016				1.48	0.908 (U)	1.54
9/7/2016	1.17					
12/7/2016		0.903 (U)		1.26 (U)		
12/8/2016	1.65				1.03 (U)	0.505 (U)
3/29/2017		0.302 (U)		0.373 (U)		0.715 (U)
3/30/2017	0.865 (U)		0.737 (U)		0.884 (U)	
5/11/2017			0.892 (U)			
6/15/2017			0.979 (U)			
7/11/2017			0.871 (U)			
7/12/2017	0.362 (U)	0.283 (U)		0.91 (U)	1.22	
7/13/2017						1.14
10/24/2017			1.19			
10/25/2017	0.401 (U)	0.927 (U)		0.853 (U)	1.07 (U)	1.6
2/27/2018			0.863 (U)			
2/28/2018	1.1 (U)	0.813 (U)		0.727 (U)	1.45	0.918 (U)
7/11/2018	0.64 (U)	0.751 (U)	0.663 (U)	1.3	1.59	
7/12/2018						0.981 (U)
11/6/2018			0.664			
11/7/2018	0.795 (U)	1.02		0.746 (U)	1.16	0.832 (U)
8/27/2019	1.12		1.6			
8/28/2019		0.661 (U)				
8/29/2019				0.996 (U)	0.582 (U)	1.87
10/16/2019		1.79				
10/17/2019			1.74	2	0.427 (U)	
10/18/2019	0.89 (U)					1.1 (U)
3/3/2020		0.383 (U)	1.23		0.567 (U)	0.517 (U)
3/4/2020	0.493 (U)			1.67		
8/11/2020		0.723 (U)	1.37			
8/13/2020				1.77		
8/14/2020	0.804 (U)				0.602 (U)	1.83
9/22/2020		0.96 (U)		1.61 (U)		
9/23/2020			1.96 (U)			
9/24/2020	0.369 (U)				0.396 (U)	1.02 (U)
3/2/2021		0.775 (U)	1.54 (U)	1.76		
3/3/2021	0.66 (U)				0.248 (U)	0.547 (U)
9/9/2021		0.239 (U)	1.22 (U)		0.702 (U)	
9/10/2021				0.689 (U)		0.616 (U)
9/13/2021	0.85 (U)					
1/20/2022			0.722 (U)		0.337 (U)	0.298 (U)
1/21/2022				0.826 (U)		
1/24/2022	0.692 (U)					
1/25/2022		0.415 (U)				
9/14/2022	0.489 (U)	0.674 (U)				
9/15/2022				1.38	0.771 (U)	
9/16/2022						1.01
9/20/2022			0.45 (U)			
2/6/2023	0.809 (U)	1.23	0.5 (U)			0.975
2/7/2023				1.92	0.582 (U)	
9/8/2023		0.371 (U)				
9/11/2023				1.45	0.429 (U)	0.58 (U)
9/13/2023	1.02 (U)		0.864 (U)			

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 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
Mean	0.7989	0.7521	1.056	1.248	0.7871	0.9786
Std. Dev.	0.3249	0.3855	0.43	0.4766	0.3838	0.4556
Upper Lim.	0.9891	0.9779	1.307	1.528	1.012	1.245
Lower Lim.	0.6087	0.5263	0.8037	0.9693	0.5623	0.7119

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						2.49
9/1/2016				4.47	2.37	
9/7/2016			0.876 (U)			
12/6/2016						0.348 (U)
12/8/2016			0.955	2.88	2.87	
3/28/2017		1.36				0.693 (U)
3/30/2017	0.297 (U)				1.71	
3/31/2017			0.102 (U)	1.14		
5/12/2017	0.693 (U)	1.15				
6/15/2017	0.435 (U)	0.765 (U)				
7/11/2017		1.13				1.38
7/12/2017	0.703 (U)					
7/13/2017			1.08 (U)	2.37	1.78	
10/24/2017		1.24				
10/25/2017			1.46			2.06
10/26/2017	0.984 (U)			2.88	3.74	
2/27/2018		1.82				1.97
2/28/2018			0.882 (U)			
3/1/2018	0.743 (U)			2.21		
3/2/2018					2.26	
7/10/2018		1.37				1.03 (U)
7/11/2018			0.924 (U)			
7/12/2018	0.918 (U)			1.73	1.81	
11/6/2018		1.2				1.13
11/7/2018			0.654 (U)	1.72	1.94	
11/8/2018	1.47					
8/27/2019		1.79				1.81
8/28/2019			0.883 (U)			
8/29/2019	2.21			3.05	2.37	
10/15/2019		2.11 (U)				
10/16/2019						1.63
10/17/2019			1.38	2.58		
10/18/2019	1.32				1.42	
3/2/2020		1.99				2.28
3/4/2020	1.39		0.722 (U)	1.68	1.31	
8/12/2020		1.95		2.56		1.13
8/13/2020	1.48 (U)		1.23 (U)		1.74	
9/22/2020		1.43 (U)	1.03 (U)			1.4 (U)
9/23/2020				2.3 (U)	1.51 (U)	
9/24/2020	1.49					
3/1/2021		1.05 (U)				
3/2/2021						0.971 (U)
3/3/2021	1.05 (U)		0.92 (U)	1.27 (U)	1.41	
9/9/2021	1.81					
9/10/2021		1.46		2.32	2.21	1.15
9/13/2021			1.15 (U)			
1/20/2022	0.61 (U)		0.0465 (U)			
1/21/2022				0.785 (U)		
1/24/2022		0.944 (U)			0.668 (U)	0.807 (U)
9/13/2022			0.829 (U)	1.97	1.42	
9/14/2022						0.665 (U)
9/19/2022		1.55				

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
9/20/2022	1.17 (U)					
2/1/2023			0.599 (U)			
2/3/2023		1.51		1.8	1.4	
2/6/2023	1.44					
2/7/2023						1.26
9/11/2023	1.28					
9/12/2023				2.19		
9/13/2023		0.964 (U)	1.59		1.22 (U)	1.23 (U)
Mean	1.131	1.41	0.9112	2.206	1.85	1.339
Std. Dev.	0.4867	0.3835	0.3942	0.8183	0.6857	0.5749
Upper Lim.	1.416	1.634	1.142	2.685	2.252	1.675
Lower Lim.	0.8462	1.185	0.6804	1.726	1.449	1.002

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.919 (U)	1.33
12/6/2016	0.407 (U)	0.828 (U)
3/28/2017		1.06
3/29/2017	0.28 (U)	
7/11/2017	0.209 (U)	0.62 (U)
10/24/2017	0.615 (U)	1.21
2/27/2018	1.05 (U)	1.79
7/10/2018	0.363 (U)	
7/11/2018		1.81
11/6/2018	0.577 (U)	1.13
8/27/2019		1.55
8/28/2019	0.815 (U)	
10/16/2019	0.999 (U)	
10/17/2019		0.702 (U)
3/3/2020	0.481 (U)	1.37
8/11/2020		0.819 (U)
8/12/2020	0.721 (U)	
9/22/2020		1.15 (U)
9/23/2020	0.8 (U)	
3/2/2021	0.751 (U)	1.29 (U)
9/10/2021		1.28
9/13/2021	0.916 (U)	
1/25/2022	0.356 (U)	
1/26/2022		0.789 (U)
9/15/2022	0.896	
9/19/2022		1.38
2/3/2023		0.949 (U)
2/7/2023	0.737 (U)	
9/12/2023	0.63 (U)	
Mean	0.6591	1.17
Std. Dev.	0.2529	0.3469
Upper Lim.	0.8071	1.38
Lower Lim.	0.511	0.9599

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-102D	B-104D	B-106D	B-107D	B-108D
8/17/2020	<0.1					
9/25/2020	<0.1					
12/9/2020			0.33		<0.1	<0.1
12/17/2020		0.079 (J)		0.052 (J)		
1/11/2021		0.077 (J)				
1/12/2021			0.36			
3/4/2021		0.11	0.43	0.055 (J)	<0.1	<0.1
3/8/2021	<0.1					
9/10/2021		0.083 (J)				
9/13/2021	<0.1			0.052 (J)	<0.1	
9/14/2021			0.5			<0.1
1/21/2022	<0.1					
1/24/2022			0.28		<0.1	<0.1
1/25/2022				<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				0.061 (J)
9/16/2022				0.08 (J)		
2/2/2023	0.052 (J)	0.091 (J)				
2/3/2023			0.36			
2/6/2023					<0.1	
2/7/2023				0.067 (J)		<0.1
9/6/2023	<0.1					
9/11/2023		0.1		0.067 (J)		
9/12/2023					<0.1	
9/13/2023			0.3			<0.1
Mean	0.0905	0.089	0.3638	0.06043	0.09329	0.09443
Std. Dev.	0.01838	0.01697	0.0711	0.01118	0.01776	0.01474
Upper Lim.	0.1	0.107	0.4391	0.07371	0.1	0.1
Lower Lim.	0.052	0.07101	0.2884	0.04715	0.053	0.061

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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-66
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)	
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	0.33					
1/12/2021	0.32					
3/3/2021			0.34			
3/5/2021	0.51					
3/12/2021				0.11		
4/15/2021		<0.1				
9/9/2021				0.14		
9/13/2021			0.2			
9/14/2021	0.57	<0.1			0.16	0.22
1/20/2022		<0.1		0.099 (J)	0.12	
1/24/2022	0.38					
1/25/2022						0.12
1/27/2022			0.21			
9/8/2022				0.13		
9/14/2022	0.38				0.14	
9/16/2022			0.22			0.18
9/19/2022		0.057 (J)				
2/2/2023				0.16	0.13	
2/3/2023		0.052 (J)				
2/7/2023	0.36		0.19			0.12
9/7/2023				0.13	0.12	
9/8/2023			0.24			
9/11/2023						0.12
9/12/2023		<0.1				
9/13/2023	0.36					
Mean	0.4013	0.08483	0.211	0.1632	0.1886	0.2243
Std. Dev.	0.08967	0.02355	0.06691	0.1017	0.1187	0.1426
Upper Lim.	0.57	0.1	0.2819	0.23	0.45	0.3829
Lower Lim.	0.32	0.052	0.1401	0.099	0.12	0.08636

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 PM 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
10/21/2019		0.2 (J)	0.13 (J)			
10/24/2019	0.096 (J)					
8/13/2020	<0.1					
8/14/2020			0.05 (J)			
8/17/2020		<0.1		<0.1		
8/19/2020						0.32
9/24/2020	<0.1					
9/25/2020			<0.1	<0.1		
9/28/2020		<0.1				0.3
3/4/2021	<0.1		0.071 (J)			
3/5/2021				<0.1		
3/9/2021						0.34
9/13/2021				<0.1		
9/14/2021	0.078 (J)	0.052 (J)				
9/15/2021					0.18	0.34
9/16/2021			0.066 (J)			
1/20/2022	<0.1					
1/21/2022			<0.1			
1/25/2022		<0.1				
1/26/2022					0.3	0.41
1/27/2022				<0.1		
9/12/2022					0.24	0.4
9/13/2022	0.08 (J)		0.081 (J)			
9/16/2022		0.079 (J)		0.054 (J)		
1/31/2023					0.2	0.4
2/3/2023			0.12			
2/6/2023	0.069 (J)					
2/7/2023		0.086 (J)		<0.1		
9/6/2023					0.26	0.26
9/11/2023		0.11				
9/12/2023	0.069 (J)		0.087 (J)	<0.1		
Mean	0.088	0.1034	0.08944	0.09425	0.236	0.3463
Std. Dev.	0.01381	0.04301	0.0258	0.01626	0.04775	0.0537
Upper Lim.	0.1	0.1346	0.1074	0.1	0.316	0.4032
Lower Lim.	0.069	0.05246	0.05862	0.054	0.156	0.2893

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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			1	0.06 (J)		
9/1/2016					0.02 (J)	
9/6/2016						0.17 (J)
12/6/2016			1.3	0.06 (J)		
12/7/2016					0.16 (J)	0.3
3/29/2017			1.5	0.04 (J)	0.1 (J)	
3/30/2017						0.12 (J)
7/12/2017			1.7	0.03 (J)	0.2 (J)	0.13 (J)
10/24/2017			2.1	<0.1		
10/25/2017					0.6	
11/15/2017			1.4			0.44
2/27/2018			2.3	<0.1	0.34	
2/28/2018						0.18
7/11/2018					<0.1	
11/6/2018			2	<0.1		
11/7/2018					<0.3 (J)	<0.3 (J)
3/12/2019			1.7	0.052 (J)	0.065 (J)	
3/13/2019						0.13 (J)
8/27/2019			1.4	<0.1	<0.1	
8/28/2019						0.091 (J)
10/15/2019			1.4	<0.1	<0.1	
10/16/2019						0.14 (J)
3/2/2020				0.064 (J)	0.071 (J)	
3/3/2020			1.5			0.078 (J)
8/11/2020			1.4	<0.1	<0.1	
8/12/2020						0.051 (J)
9/22/2020				<0.1	<0.1	
9/23/2020						0.058 (J)
9/24/2020			0.97			
3/2/2021				<0.1		0.084 (J)
3/3/2021					0.085 (J)	
3/4/2021			1.8			
9/9/2021				<0.1	0.099 (J)	0.083 (J)
9/10/2021			2.2			
9/15/2021	0.085 (J)	0.098 (J)				
1/25/2022				<0.1	0.093 (J)	0.063 (J)
1/26/2022	0.088 (J)	0.13	1.8			
9/13/2022	0.14	0.18				
9/15/2022			0.84	0.064 (J)	0.078 (J)	0.095 (J)
1/31/2023		0.19				
2/1/2023	0.11					0.09 (J)
2/2/2023			1.1			
2/6/2023				<0.1	0.1	
9/6/2023	0.085 (J)	0.1				
9/8/2023				<0.1		0.055 (J)
9/11/2023			1.3		0.13	
Mean	0.1016	0.1396	1.536	0.08263	0.1471	0.132
Std. Dev.	0.02388	0.04348	0.4118	0.02457	0.1312	0.09503
Upper Lim.	0.1437	0.2125	1.769	0.1	0.1449	0.1547
Lower Lim.	0.06902	0.06674	1.302	0.06	0.06163	0.07987

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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	0.06 (J)					
9/1/2016				0.75		
9/2/2016						0.66
9/6/2016		0.11 (J)				
9/7/2016			0.32			
12/6/2016	0.1 (J)					
12/7/2016		0.11 (J)		0.37		0.66
12/8/2016			0.31			
3/29/2017	0.02 (J)			0.35		0.34
3/30/2017		<0.1	0.1 (J)		0.06 (J)	
5/11/2017					0.06 (J)	
6/15/2017					0.07 (J)	
7/11/2017					0.04 (J)	
7/12/2017	<0.1	0.07 (J)	0.27 (J)	0.34		0.41
10/24/2017					0.43	
10/25/2017	<0.1	0.26 (J)	0.49	0.9		0.68
2/27/2018	<0.1				0.28	
2/28/2018		<0.1	0.54	1.2		0.76
7/11/2018	<0.1	<0.1	0.15 (J)	0.37	0.6	1.3
11/6/2018					<0.1	
11/7/2018	<0.1	<0.1	<0.3 (J)	<0.3 (J)		<0.3 (J)
3/12/2019					0.052 (J)	
3/13/2019	0.042 (J)		0.084 (J)	0.22 (J)		0.45
3/14/2019		0.057 (J)				
8/27/2019	<0.1		0.24 (J)		<0.1	
8/28/2019		<0.1		0.2		
8/29/2019						0.78
10/16/2019	0.052 (J)			0.23 (J)		
10/17/2019		0.079 (J)			0.042 (J)	0.26 (J)
10/18/2019			0.086 (J)			
3/3/2020	<0.1	<0.1		0.056 (J)	<0.1	
3/4/2020			<0.1			1.5
8/11/2020	<0.1			0.2	<0.1	
8/13/2020		<0.1				0.9
8/14/2020			0.069 (J)			
9/22/2020	<0.1			0.084 (J)		0.15
9/23/2020		<0.1			<0.1	
9/24/2020			0.056 (J)			
3/2/2021	<0.1	<0.1		0.19	<0.1	1.4
3/3/2021			0.085 (J)			
9/9/2021	<0.1	<0.1		0.18	0.053 (J)	
9/10/2021						0.25
9/13/2021			0.063 (J)			
1/20/2022					<0.1	
1/21/2022						1.3
1/24/2022		<0.1	<0.1			
1/25/2022	<0.1			0.16		
9/13/2022	0.059 (J)	0.065 (J)				
9/14/2022			0.1	0.18		
9/15/2022						0.69
9/20/2022					0.076 (J)	
2/1/2023	0.067 (J)					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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
2/2/2023		0.065 (J)				
2/6/2023			0.096 (J)	0.22	0.072 (J)	
2/7/2023						1.1
9/8/2023	<0.1	<0.1		0.17		
9/11/2023						1.5
9/13/2023			0.1		0.083 (J)	
Mean	0.085	0.1008	0.183	0.326	0.1309	0.762
Std. Dev.	0.02507	0.04067	0.1445	0.2917	0.1432	0.4533
Upper Lim.	0.1	0.11	0.2118	0.4074	0.28	1.019
Lower Lim.	0.06	0.079	0.0951	0.1668	0.06	0.5046

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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						1.8
9/2/2016	0.07 (J)	0.3				
9/7/2016					0.02 (J)	
12/8/2016	0.14 (J)	0.12 (J)			0.06 (J)	1.1
3/28/2017				0.17 (J)		
3/29/2017		0.11 (J)				
3/30/2017	<0.1		0.12 (J)			
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)		
7/12/2017	0.04 (J)		0.22 (J)			
7/13/2017		0.09 (J)			<0.1	0.84
10/24/2017				<0.1		
10/25/2017	0.34	0.25 (J)			<0.1	
10/26/2017			0.66			1
11/15/2017				0.79		
2/27/2018				<0.1		
2/28/2018	<0.1	<0.1			<0.1	
3/1/2018			0.18			1.4
7/11/2018	<0.1				<0.1	
7/12/2018		0.13 (J)	0.25 (J)			0.96
11/6/2018				<0.1		
11/7/2018	<0.1	<0.1			<0.1	0.74
11/8/2018			<0.3 (J)			
3/12/2019				0.082 (J)		
3/13/2019	0.043 (J)					
3/14/2019		0.042 (J)	0.092 (J)		<0.1	1.6
8/27/2019				<0.1		
8/28/2019					<0.1	
8/29/2019	0.079 (J)	0.054 (J)	0.095 (J)			0.52
10/15/2019				<0.1		
10/17/2019	<0.1				<0.1	0.46
10/18/2019		<0.1	0.079 (J)			
3/2/2020				<0.1		
3/3/2020	<0.1	<0.1				
3/4/2020			0.075 (J)		<0.1	0.74
8/12/2020				<0.1		0.22
8/13/2020			0.1		<0.1	
8/14/2020	<0.1	<0.1				
9/22/2020				<0.1	<0.1	
9/23/2020						0.11
9/24/2020	<0.1	<0.1	0.075 (J)			
3/1/2021				<0.1		
3/3/2021	<0.1	<0.1	0.063 (J)		<0.1	0.71
9/9/2021	<0.1		0.084 (J)			
9/10/2021		<0.1		<0.1		0.22
9/13/2021					<0.1	
1/20/2022	<0.1	<0.1	<0.1		<0.1	
1/21/2022						0.64
1/24/2022				<0.1		
9/13/2022					<0.1	0.47

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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
9/15/2022	0.087 (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
2/6/2023		0.057 (J)	0.076 (J)			
2/7/2023	0.059 (J)					
9/11/2023	0.054 (J)	0.054 (J)	0.1			
9/12/2023						0.51
9/13/2023				<0.1	<0.1	
Mean	0.1006	0.1088	0.1575	0.127	0.094	0.7685
Std. Dev.	0.06128	0.06196	0.1414	0.1591	0.01957	0.4497
Upper Lim.	0.14	0.1021	0.1789	0.17	0.1	1.024
Lower Lim.	0.07	0.054	0.08621	0.096	0.06	0.5131

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 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			0.39	0.78
8/31/2016		1		
9/1/2016	1.5			
12/6/2016		0.76	0.47	1.1
12/8/2016	1.6			
3/28/2017		1.2		1.1
3/29/2017			0.51	
3/30/2017	0.86			
7/11/2017		0.7	0.2 (J)	1.1
7/13/2017	1.1			
10/24/2017			0.82	1.7
10/25/2017		1.4		
10/26/2017	1.7			
2/27/2018		1.3	0.59	1.2
3/2/2018	1.1			
7/11/2018				1.3
7/12/2018	0.65			
11/6/2018		<0.3 (J)	0.35	1.1
11/7/2018	0.63			
3/12/2019		0.31	0.35	0.97
3/14/2019	1.4			
8/27/2019		0.32		0.68
8/28/2019			0.098 (J)	
8/29/2019	0.78			
10/16/2019		0.32	0.14 (J)	
10/17/2019				1.2
10/18/2019	0.46			
3/2/2020		0.33		
3/3/2020			<0.1	1.4
3/4/2020	0.7			
8/11/2020				1.3
8/12/2020		0.13	0.056 (J)	
8/13/2020	0.47			
9/22/2020		0.12		0.99
9/23/2020	0.32		<0.1	
3/2/2021		0.15	0.059 (J)	0.93
3/3/2021	0.67			
9/10/2021	0.47	0.16		2
9/13/2021			0.069 (J)	
1/24/2022	0.59	0.19		
1/25/2022			<0.1	
1/26/2022				1.2
9/13/2022	0.43			
9/14/2022		0.27		
9/15/2022			0.077 (J)	
9/19/2022				0.8
2/3/2023	0.48			0.9
2/7/2023		0.22	0.13	
9/12/2023			0.091 (J)	
9/13/2023	0.51	0.14		
Mean	0.821	0.4826	0.2474	1.145
Std. Dev.	0.4283	0.4359	0.2208	0.3161

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9
Upper Lim.	1.013	1	0.2558	1.33
Lower Lim.	0.5653	0.15	0.0913	0.9596

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 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-108D
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
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021		<0.001		<0.001		
3/4/2021			5.9E-05 (J)	<0.001	<0.001	<0.001
3/5/2021		6.5E-05 (J)				
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	
9/15/2022			<0.001			<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
9/6/2023	<0.001					
9/8/2023		<0.001				
9/11/2023			<0.001			
9/12/2023					<0.001	
9/13/2023				<0.001		0.0025
Mean	0.0006848	0.0008664	0.0006433	0.0008814	0.0008634	0.001214
Std. Dev.	0.0004364	0.0003534	0.0004924	0.0003355	0.0003613	0.0005669
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0025
Lower Lim.	8.8E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-120D	B-56	B-63	B-77	B-82
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
10/22/2019				7.3E-05 (J)		
10/24/2019					<0.001	
8/13/2020					0.0016 (J)	
8/17/2020			0.00022 (J)			5.9E-05 (J)
9/24/2020					0.00021 (J)	
9/28/2020			9.1E-05 (J)			0.00011 (J)
12/9/2020	5.8E-05 (J)					
1/12/2021	5.1E-05 (J)					
3/3/2021			0.0001 (J)			
3/4/2021					0.00029 (J)	
3/5/2021	<0.001					
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			
9/13/2022					<0.001	
9/14/2022	<0.001			<0.001		
9/16/2022			<0.001			<0.001
9/19/2022		<0.001				
2/2/2023				<0.001		
2/3/2023		<0.001				
2/6/2023					<0.001	
2/7/2023	<0.001		<0.001			<0.001
9/7/2023				<0.001		
9/8/2023			<0.001			
9/11/2023						<0.001
9/12/2023		<0.001			<0.001	
9/13/2023	<0.001					
Mean	0.0007636	0.000865	0.0006764	0.000765	0.000842	0.0007032
Std. Dev.	0.0004377	0.0003307	0.0004483	0.0004352	0.0004347	0.0004459
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.1E-05	0.00019	9.1E-05	4.7E-05	0.00029	5.9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93	DGWC-10	DGWC-11	DGWC-12
8/31/2016				<0.01	<0.001	
9/1/2016						<0.001
12/6/2016				<0.01	<0.001	
12/7/2016						<0.001
3/29/2017				<0.01	<0.001	<0.001
7/12/2017				<0.01	<0.001	<0.001
10/24/2017				<0.01	<0.001	
10/25/2017						<0.001
2/27/2018				<0.01	<0.001	<0.001
7/11/2018						<0.001
11/6/2018				<0.01	<0.001	
11/7/2018						<0.001
8/27/2019				0.00024 (J)	0.00012 (J)	0.0001 (J)
9/17/2019						<0.001
10/15/2019				0.00014 (J)	7.6E-05 (J)	<0.001
10/21/2019	0.00012 (J)					
3/2/2020					0.00015 (J)	<0.001
3/3/2020				0.00011 (J)		
8/11/2020				7E-05 (J)	5.3E-05 (J)	<0.001
8/14/2020	0.00092 (J)					
8/17/2020		0.00081 (J)				
8/19/2020			0.00012 (J)			
9/22/2020					0.0001 (J)	0.00011 (J)
9/24/2020				0.00013 (J)		
9/25/2020	6.5E-05 (J)	0.00035 (J)				
9/28/2020			0.00012 (J)			
3/2/2021					<0.001	
3/3/2021						<0.001
3/4/2021	0.00017 (J)			9.2E-05 (J)		
3/5/2021		0.012				
3/9/2021			<0.001			
9/9/2021					<0.001	<0.001
9/10/2021				<0.01		
9/13/2021		<0.001				
9/15/2021			<0.001			
9/16/2021	<0.001					
1/21/2022	<0.001					
1/25/2022					<0.001	<0.001
1/26/2022			<0.001	<0.01		
1/27/2022		0.0022				
9/12/2022			<0.001			
9/13/2022	<0.001					
9/15/2022				<0.01	<0.001	<0.001
9/16/2022		<0.001				
1/31/2023			<0.001			
2/2/2023				<0.01		
2/3/2023	<0.001					
2/6/2023					<0.001	<0.001
2/7/2023		<0.001				
9/6/2023			<0.001			
9/8/2023					<0.001	
9/11/2023				<0.01		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93	DGWC-10	DGWC-11	DGWC-12
9/12/2023	<0.001	0.0009 (J)				
Mean	0.0006972	0.002408	0.00078	0.00671	0.0007499	0.0009105
Std. Dev.	0.0004357	0.003911	0.0004074	0.004788	0.0004153	0.0002755
Upper Lim.	0.001	0.012	0.001	0.01	0.001	0.001
Lower Lim.	6.5E-05	0.00035	0.00012	0.00013	0.00012	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		<0.001				
9/1/2016					<0.001	
9/6/2016	<0.001		<0.001			
9/7/2016				<0.001		
12/6/2016		<0.001				
12/7/2016	<0.001		0.0002 (J)		<0.001	
12/8/2016				<0.001		
3/29/2017		<0.001			<0.001	
3/30/2017	0.0002 (J)		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	<0.001	0.0001 (J)	<0.001	<0.001	
10/24/2017						<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
2/28/2018	<0.001		<0.001	<0.001	<0.001	
7/11/2018		<0.001	<0.001	<0.001	<0.001	<0.001
11/6/2018						<0.001
11/7/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
8/27/2019		<0.001		9E-05 (J)		6E-05 (J)
8/28/2019	<0.001		5.9E-05 (J)		0.00026 (J)	
10/16/2019	<0.001	<0.001			<0.001	
10/17/2019			<0.001			8.6E-05 (J)
10/18/2019				7.4E-05 (J)		
3/3/2020	<0.001	<0.001	<0.001		7E-05 (J)	<0.001
3/4/2020				0.00013 (J)		
8/11/2020		9.6E-05 (J)			5.3E-05 (J)	6.4E-05 (J)
8/12/2020	<0.001					
8/13/2020			0.0012 (J)			
8/14/2020				0.00017 (J)		
9/22/2020		4.4E-05 (J)			0.00016 (J)	
9/23/2020	9.8E-05 (J)		8.2E-05 (J)			9.4E-05 (J)
9/24/2020				7.9E-05 (J)		
3/2/2021	<0.001	8.3E-05 (J)	<0.001		4.5E-05 (J)	0.00014 (J)
3/3/2021				0.00015 (J)		
9/9/2021	<0.001	<0.001	<0.001		<0.001	<0.001
9/13/2021				<0.001		
1/20/2022						<0.001
1/24/2022			<0.001	<0.001		
1/25/2022	<0.001	<0.001			<0.001	
9/13/2022		<0.001	<0.001			
9/14/2022				<0.001	<0.001	
9/15/2022	<0.001					
9/20/2022						<0.001
2/1/2023	<0.001	<0.001				
2/2/2023			<0.001			
2/6/2023				<0.001	<0.001	<0.001
9/8/2023	<0.001	<0.001	<0.001		<0.001	
9/13/2023				<0.001		<0.001
Mean	0.0009054	0.0008538	0.0007758	0.0006733	0.0007678	0.0006176

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
Std. Dev.	0.0002758	0.0003469	0.0004132	0.00044	0.0004016	0.000461
Upper Lim.	0.001	0.001	0.0012	0.001	0.001	0.001
Lower Lim.	0.0002	9.6E-05	0.0002	0.0001	0.00016	9E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-23	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0005 (J)
9/2/2016	<0.1	0.0002 (J)				
9/7/2016					0.0002 (J)	
12/7/2016	<0.1					
12/8/2016		<0.001			0.0002 (J)	<0.001
3/28/2017				0.0002 (J)		
3/29/2017	<0.1					
3/30/2017		0.0004 (J)	<0.001			
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	<0.1	0.0001 (J)	<0.001			
7/13/2017					0.0004 (J)	0.0007 (J)
10/24/2017				<0.001		
10/25/2017	<0.1	<0.001			0.0002 (J)	
10/26/2017			<0.001			0.0009 (J)
2/27/2018				<0.001		
2/28/2018	<0.1	<0.001			<0.001	
3/1/2018			<0.001			<0.001
7/11/2018	<0.1	<0.001			0.00052 (J)	
7/12/2018			<0.001			0.001 (J)
11/6/2018				<0.001		
11/7/2018	<0.1	<0.001			<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	0.00015 (J)	0.00023 (J)	6.6E-05 (J)			0.0006 (J)
10/15/2019				0.0001 (J)		
10/17/2019	9.7E-05 (J)	4.6E-05 (J)			0.00026 (J)	0.0011 (J)
10/18/2019			<0.001			
3/2/2020				<0.001		
3/3/2020		0.00015 (J)				
3/4/2020	0.00068 (J)		<0.001		0.0001 (J)	0.00088 (J)
8/12/2020				<0.001		0.0004 (J)
8/13/2020	0.00044 (J)		<0.001		0.0016 (J)	
8/14/2020		<0.001				
9/22/2020	0.00013 (J)			<0.001	0.00074 (J)	
9/23/2020						0.00053 (J)
9/24/2020		0.00014 (J)	<0.001			
3/1/2021				0.00012 (J)		
3/2/2021	0.00047 (J)					
3/3/2021		<0.001	<0.001		0.00024 (J)	0.0007 (J)
9/9/2021		<0.001	<0.001			
9/10/2021	<0.1			<0.001		<0.001
9/13/2021					<0.001	
1/20/2022		<0.001	<0.001		<0.001	
1/21/2022	<0.1					<0.001
1/24/2022				<0.001		
9/13/2022					<0.001	<0.001
9/15/2022	<0.1	<0.001				
9/19/2022				<0.001		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-23	DGWC-4	DGWC-42	DGWC-47
9/20/2022			<0.001			
2/1/2023					<0.001	
2/3/2023				<0.001		<0.001
2/6/2023			<0.001			
2/7/2023	<0.1	<0.001				
9/11/2023	<0.1	<0.001	<0.001			
9/12/2023						0.00024 (J)
9/13/2023				<0.001	0.00018 (J)	
Mean	0.06852	0.0006982	0.0009508	0.0008038	0.0008105	0.001024
Std. Dev.	0.0476	0.0004113	0.0002143	0.0003786	0.001096	0.0009939
Upper Lim.	0.1	0.001	0.001	0.001	0.0004115	0.001
Lower Lim.	0.00044	0.00015	6.6E-05	0.0002	0.0001765	0.00053

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/16/2024 2:23 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			<0.001	<0.005
8/31/2016		0.0002 (J)		
9/1/2016	0.0008 (J)			
12/6/2016		0.0004 (J)	<0.001	<0.005
12/8/2016	0.0019 (J)			
3/28/2017		<0.001		<0.005
3/29/2017			0.0001 (J)	
3/30/2017	0.0035 (J)			
7/11/2017		<0.001	<0.001	<0.005
7/13/2017	0.002 (J)			
10/24/2017			<0.001	<0.005
10/25/2017		0.0024 (J)		
10/26/2017	0.0022 (J)			
2/27/2018		<0.001	<0.001	<0.005
3/2/2018	<0.001			
7/11/2018				<0.005
7/12/2018	0.0014 (J)			
11/6/2018		<0.001	<0.001	<0.005
11/7/2018	<0.005 (J)			
8/27/2019		5.1E-05 (J)		<0.005
8/28/2019			8.2E-05 (J)	
8/29/2019	0.001 (J)			
10/16/2019		8.5E-05 (J)	0.00029 (J)	
10/17/2019				<0.005
10/18/2019	0.00095 (J)			
3/2/2020		5.1E-05 (J)		
3/3/2020			0.00023 (J)	0.00017 (J)
3/4/2020	0.0012 (J)			
8/11/2020				<0.005
8/12/2020		6.3E-05 (J)	0.0007 (J)	
8/13/2020	0.00092 (J)			
9/22/2020		4.8E-05 (J)		0.00015 (J)
9/23/2020	0.001 (J)		0.00011 (J)	
3/2/2021		8E-05 (J)	0.00027 (J)	0.00028 (J)
3/3/2021	0.0011			
9/10/2021	0.00099 (J)	<0.001		<0.005
9/13/2021			<0.001	
1/24/2022	0.0011	<0.001		
1/25/2022			<0.001	
1/26/2022				<0.005
9/13/2022	0.00093 (J)			
9/14/2022		<0.001		
9/15/2022			<0.001	
9/19/2022				<0.005
2/3/2023	<0.001			<0.005
2/7/2023		<0.001	<0.001	
9/12/2023			<0.001	
9/13/2023	0.00082 (J)	<0.001		
Mean	0.001516	0.0006877	0.0007101	0.0042
Std. Dev.	0.001073	0.0006171	0.000395	0.001841
Upper Lim.	0.002	0.001	0.001	0.005
Lower Lim.	0.00093	6.3E-05	0.00023	0.00028

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 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)	
9/6/2023	0.0023 (J)					
9/8/2023		0.015 (J)				
9/11/2023			0.0091 (J)		0.0045 (J)	
9/12/2023						0.012 (J)
9/13/2023				0.04		
Mean	0.003787	0.01169	0.01239	0.03813	0.005214	0.01457
Std. Dev.	0.004548	0.002587	0.001821	0.001642	0.0004059	0.001512
Upper Lim.	0.015	0.01476	0.01432	0.03987	0.005696	0.01637
Lower Lim.	0.0013	0.008613	0.01046	0.03638	0.004732	0.01278

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 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						<0.05
1/30/2019					<0.05	
9/11/2019					0.0078 (J)	0.0064 (J)
10/21/2019					0.0078 (J)	
10/22/2019						0.0062 (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)				
3/3/2021				0.0051 (J)		
3/4/2021	0.014 (J)					
3/5/2021		0.028 (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	0.015 (J)	0.029 (J)	0.077			0.0064 (J)
1/20/2022			0.079		0.0092 (J)	0.0062 (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)				0.0072 (JD)
9/15/2022	0.016 (J)					
9/16/2022				0.0057 (J)		
9/19/2022			0.076			
2/2/2023					0.0082 (J)	0.0045 (J)
2/3/2023			0.068			
2/7/2023	0.014 (J)	0.018 (J)		0.0054 (J)		
9/7/2023					0.0092 (J)	0.0069 (J)
9/8/2023				0.0055 (J)		
9/12/2023			0.044			
9/13/2023	0.014 (J)	0.019 (J)				
Mean	0.01471	0.02275	0.072	0.005488	0.01008	0.008378
Std. Dev.	0.0009512	0.004268	0.01514	0.0003441	0.004977	0.006279
Upper Lim.	0.016	0.02727	0.0928	0.005852	0.0094	0.025
Lower Lim.	0.014	0.01823	0.0512	0.005123	0.0078	0.0045

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 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	<0.03					
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)		
10/24/2019		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)	
9/13/2021					0.0017 (J)	
9/14/2021	<0.03	<0.03	0.001 (J)			
9/15/2021						0.012 (J)
9/16/2021				0.0021 (J)		
1/20/2022		<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					0.0066 (J)	
9/12/2022						0.015 (J)
9/13/2022		0.0021 (JD)		0.0027 (J)		
9/16/2022	<0.03		0.00078 (J)		0.0021 (J)	
1/31/2023						0.014 (J)
2/3/2023				0.0025 (J)		
2/6/2023		<0.03				
2/7/2023	<0.03		0.00073 (J)		0.0071 (J)	
9/6/2023						0.0095 (J)
9/11/2023	<0.03		<0.03			
9/12/2023		<0.03		0.0021 (J)	0.004 (J)	
Mean	0.02634	0.01342	0.003159	0.002589	0.007263	0.0131
Std. Dev.	0.01035	0.01431	0.004606	0.0008007	0.009062	0.002356
Upper Lim.	0.03	0.03	0.015	0.003276	0.01268	0.01705
Lower Lim.	0.00073	0.0011	0.00073	0.001903	0.001639	0.009152

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 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				0.0022 (J)	0.0022 (J)	
9/1/2016						<0.03
12/6/2016				<0.05	0.0027 (J)	
12/7/2016						<0.03
3/29/2017				0.002 (J)	0.0021 (J)	<0.03
7/12/2017				0.0019 (J)	0.0022 (J)	<0.03
10/24/2017				0.0022 (J)	0.0024 (J)	
10/25/2017						<0.03
2/27/2018				0.0037 (J)	0.0022 (J)	0.00097 (J)
7/11/2018						<0.03
11/6/2018				<0.05	<0.05	
11/7/2018						<0.03
8/27/2019				0.0053 (J)	0.0023 (J)	0.0011 (J)
9/17/2019						0.0011 (J)
10/15/2019				0.0051 (J)	0.0019 (J)	0.00091 (J)
3/2/2020					0.0023 (J)	<0.03
3/3/2020				0.0049 (J)		
8/11/2020				0.0033 (J)	0.0028 (J)	0.0011 (J)
8/19/2020	0.011 (J)					
9/22/2020					0.0019 (J)	<0.03
9/24/2020				0.0049 (J)		
9/28/2020	0.011 (J)					
3/2/2021					0.0017 (J)	
3/3/2021						<0.03
3/4/2021				0.0042 (J)		
3/9/2021	0.012 (J)					
9/9/2021					0.0029 (J)	<0.03
9/10/2021				0.0051 (J)		
9/15/2021	0.011 (J)	0.0042 (J)	0.0012 (J)			
1/25/2022					0.0021 (J)	<0.03
1/26/2022	0.013 (J)	0.0047 (J)	0.0013 (J)	0.0059 (J)		
9/12/2022	0.013 (J)					
9/13/2022		0.0052 (J)	0.0011 (J)			
9/15/2022				0.0053 (J)	0.0024 (J)	0.00088 (J)
1/31/2023	0.011 (J)		0.00089 (J)			
2/1/2023		0.0048 (J)				
2/2/2023				0.0049 (J)		
2/6/2023					0.0018 (J)	<0.03
9/6/2023	0.013 (J)	0.0045 (J)	0.00097 (J)			
9/8/2023					0.0017 (J)	
9/11/2023				0.0043 (J)		<0.03
Mean	0.01188	0.00468	0.001092	0.0064	0.003478	0.0213
Std. Dev.	0.000991	0.0003701	0.0001663	0.006885	0.005382	0.01363
Upper Lim.	0.013	0.0053	0.001371	0.0053	0.0027	0.03
Lower Lim.	0.011	0.00406	0.0008133	0.0022	0.0019	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		0.0031 (J)				
9/1/2016					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	0.003 (J)		0.0066 (J)		0.0034 (J)	
12/8/2016				<0.03		
3/29/2017		0.0041 (J)			0.0031 (J)	
3/30/2017	0.0035 (J)		0.0061 (J)	<0.03		0.0807
5/11/2017						0.085
6/15/2017						0.0781
7/11/2017						0.0731
7/12/2017	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03	0.0032 (J)	
10/24/2017						0.0995
10/25/2017		0.0032 (J)	0.0061 (J)	<0.03	0.0031 (J)	
11/15/2017	0.0028 (J)					
2/27/2018		0.0035 (J)				0.0875
2/28/2018	<0.05		0.0062 (J)	<0.03	0.0031 (J)	
7/11/2018		0.0034 (J)	0.0058 (J)	<0.03	0.0034 (J)	0.033 (J)
11/6/2018						<0.05
11/7/2018	<0.05	<0.05	<0.05 (O)	<0.03	<0.05	
8/27/2019		0.0038 (J)		0.00089 (J)		0.032
8/28/2019	0.0033 (J)		0.0063 (J)		0.0032 (J)	
10/16/2019	0.0029 (J)	0.0032 (J)			0.0026 (J)	
10/17/2019			0.0064 (J)			0.029 (J)
10/18/2019				0.00096 (J)		
3/3/2020	0.0035 (J)	0.008 (J)	0.0059 (J)		0.0034 (J)	0.026 (J)
3/4/2020				0.0011 (J)		
8/11/2020		0.0035 (J)			0.0031 (J)	0.028 (J)
8/12/2020	0.0034 (J)					
8/13/2020			0.0089 (J)			
8/14/2020				0.0015 (J)		
9/22/2020		0.0038 (J)			0.0034 (J)	
9/23/2020	0.0033 (J)		0.006 (J)			0.022 (J)
9/24/2020				0.00096 (J)		
3/2/2021	0.0033 (J)	0.004 (J)	0.0051 (J)		0.003 (J)	0.023 (J)
3/3/2021				0.0011 (J)		
9/9/2021	0.0036 (J)	0.0044 (J)	0.0057 (J)		0.0035 (J)	0.024 (J)
9/13/2021				<0.03		
1/20/2022						0.024 (J)
1/24/2022			0.0051 (J)	<0.03		
1/25/2022	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	0.004 (J)					
9/20/2022						0.021 (J)
2/1/2023	0.0031 (J)	0.018 (J)				
2/2/2023			0.005 (J)			
2/6/2023				<0.03	0.0026 (J)	0.017 (J)
9/8/2023	0.0031 (J)	0.0041 (J)	0.0051 (J)		0.0024 (J)	
9/13/2023				<0.03		0.017 (J)
Mean	0.005678	0.005868	0.006022	0.02087	0.004274	0.04342

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
Std. Dev.	0.007037	0.005726	0.0008708	0.01381	0.005028	0.02901
Upper Lim.	0.0037	0.0044	0.0064	0.03	0.0034	0.0807
Lower Lim.	0.0029	0.0034	0.0051	0.0011	0.003	0.022

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/2/2016	0.0021 (J)	0.0057 (J)	0.0046 (J)			
9/7/2016						0.012 (J)
12/7/2016	0.005 (J)					
12/8/2016		0.0054 (J)	0.0047 (J)			0.0118 (J)
3/28/2017					0.0031 (J)	
3/29/2017	0.0021 (J)		0.0043 (J)			
3/30/2017		0.0065 (J)		0.0162 (J)		
3/31/2017						0.0119 (J)
5/12/2017				0.0036 (J)	0.0027 (J)	
6/15/2017				0.0063 (J)	0.0025 (J)	
7/11/2017					0.0022 (J)	
7/12/2017	0.0019 (J)	0.0057 (J)		0.0068 (J)		
7/13/2017			0.0044 (J)			0.0116 (J)
10/24/2017					0.0024 (J)	
10/25/2017	0.0022 (J)	0.006 (J)	0.0042 (J)			0.0122 (J)
10/26/2017				0.0049 (J)		
2/27/2018					0.0027 (J)	
2/28/2018	0.0019 (J)	0.0061 (J)	0.0043 (J)			0.0122 (J)
3/1/2018				0.0759		
7/11/2018	0.0022 (J)	0.0057 (J)				0.01 (J)
7/12/2018			0.0036 (J)	0.0047 (J)		
11/6/2018					<0.05	
11/7/2018	<0.05	<0.05	<0.05			<0.05
11/8/2018				<0.05		
8/27/2019					0.0033 (J)	
8/28/2019						0.01 (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	0.0075 (J)	0.0063 (J)				0.011 (J)
10/18/2019			0.0041 (J)	0.0039 (J)		
3/2/2020					0.0035 (J)	
3/3/2020		0.0065 (J)	0.0046 (J)			
3/4/2020	0.019 (J)			0.004 (J)		0.0091 (J)
8/12/2020					0.0031 (J)	
8/13/2020	0.012 (J)			0.0052 (J)		0.011 (J)
8/14/2020		0.0058 (J)	0.0039 (J)			
9/22/2020	0.0026 (J)				0.0026 (J)	0.0099 (J)
9/24/2020		0.0062 (J)	0.0037 (J)	0.0045 (J)		
3/1/2021					0.0035 (J)	
3/2/2021	0.011 (J)					
3/3/2021		0.0054 (J)	0.0038 (J)	0.014 (J)		0.0079 (J)
9/9/2021		0.006 (J)		0.0081 (J)		
9/10/2021	0.0023 (J)		0.0039 (J)		0.0035 (J)	
9/13/2021						0.015 (J)
1/20/2022		0.0058 (J)	0.0032 (J)	0.0029 (J)		0.0069 (J)
1/21/2022	0.012 (J)					
1/24/2022					0.0038 (J)	
9/13/2022						0.0091 (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)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
2/1/2023						0.0068 (J)
2/3/2023					0.0036 (J)	
2/6/2023			0.0034 (J)	0.0022 (J)		
2/7/2023	0.013 (J)	0.0056 (J)				
9/11/2023	0.011 (J)	0.0055 (J)	0.0031 (J)	0.0036 (J)		
9/13/2023					0.004 (J)	0.0087 (J)
Mean	0.007984	0.006958	0.005032	0.01045	0.004339	0.01116
Std. Dev.	0.006547	0.004388	0.004861	0.01685	0.005183	0.003923
Upper Lim.	0.012	0.0063	0.0044	0.014	0.0037	0.012
Lower Lim.	0.0021	0.0056	0.0034	0.0036	0.0026	0.0087

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-125D
8/30/2016				0.005 (J)	0.0212 (J)	
8/31/2016			0.0026 (J)			
9/1/2016	0.0854	0.125				
12/6/2016			0.0046 (J)	0.0066 (J)	0.0242 (J)	
12/8/2016	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	0.0767					
7/11/2017			0.0031 (J)	0.0045 (J)	0.022 (J)	
7/13/2017	0.0743	0.143				
10/24/2017				0.0072 (J)	0.0281 (J)	
10/25/2017			0.0055 (J)			
10/26/2017	0.071	0.115				
2/27/2018			0.0066 (J)	0.0075 (J)	0.031 (J)	
3/1/2018	0.0772					
3/2/2018		0.129				
7/11/2018					0.028 (J)	
7/12/2018	0.073	0.12				
11/6/2018			<0.05	<0.05	<0.05	
11/7/2018	0.082	0.12				
8/27/2019			0.008 (J)		0.031	
8/28/2019				0.0048 (J)		
8/29/2019	0.056	0.11				
10/16/2019			0.006 (J)	0.0045 (J)		
10/17/2019	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	0.063	0.12				
8/11/2020					0.032	
8/12/2020	0.054		0.0067 (J)	0.0058 (J)		
8/13/2020		0.098				
9/22/2020			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	0.049	0.096				
9/10/2021	0.053	0.095	0.0071 (J)		0.027 (J)	
9/13/2021				0.0034 (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	0.05	0.099				
9/14/2022			0.0081 (J)			
9/15/2022				0.0039 (J)		
9/19/2022					0.023 (J)	
2/3/2023	0.048	0.089			0.025 (J)	
2/7/2023			0.0072 (J)	0.0036 (J)		
3/16/2023						0.074
3/21/2023						0.078
4/10/2023						0.034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9	B-125D
9/12/2023	0.034			0.0045 (J)		
9/13/2023		0.096	0.0081 (J)			
9/14/2023						0.031
Mean	0.06212	0.1127	0.007167	0.006094	0.02674	0.05425
Std. Dev.	0.01407	0.01596	0.004789	0.004873	0.003134	0.0252
Upper Lim.	0.07036	0.122	0.008	0.0066	0.02864	0.1115
Lower Lim.	0.05388	0.1033	0.0046	0.0039	0.02485	0

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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
9/6/2023	<0.0002					
9/8/2023		<0.0002				
9/12/2023				<0.0002		
9/13/2023			<0.0002		<0.0002	<0.0002
Mean	0.0001871	0.0002043	0.0001849	0.0001943	0.0001914	0.0001867
Std. Dev.	3.402E-05	4.392E-05	4.278E-05	1.512E-05	2.268E-05	3.748E-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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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		
9/6/2023					<0.0002	<0.0002
9/8/2023	<0.0002					
9/11/2023		<0.0002	<0.0002			
9/12/2023				<0.0002		
Mean	0.0002125	0.0002112	0.00019	0.0001762	0.000178	0.0001885
Std. Dev.	5.339E-05	3.182E-05	3E-05	4.406E-05	2.168E-05	5.161E-05
Upper Lim.	0.00034	0.00029	0.0002	0.0002	0.0001725	0.0002227
Lower Lim.	0.00016	0.0002	0.00011	0.0001	0.0001409	0.0001063

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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			
9/8/2023		0.00048		<0.0002	<0.0002	<0.0002
9/11/2023	0.0021		<0.0002			
Mean	0.0002789	0.0001928	0.0001633	0.0001867	0.0001784	0.0001926
Std. Dev.	0.0004573	8.877E-05	6.038E-05	3.896E-05	5.145E-05	3.212E-05
Upper Lim.	0.0021	0.00048	0.0002	0.0002	0.0002	0.0002
Lower Lim.	9E-05	8E-05	9E-05	9E-05	8E-05	6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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	
9/8/2023		<0.0002				
9/11/2023				<0.0002	<0.0002	<0.0002
9/13/2023	<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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
Mean	0.0001498	0.0001742	0.0002038	0.0001816	0.0001668	0.0001713
Std. Dev.	6.038E-05	5.399E-05	0.0001151	4.375E-05	5.85E-05	5.249E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	8.2E-05	0.00013	8.3E-05	9E-05	8E-05	0.00011

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 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
9/11/2023	<0.0002					
9/12/2023						0.00013 (J)
9/13/2023		<0.0002	<0.0002	<0.0002	0.00028	
Mean	0.0001884	0.0002057	0.0001916	0.0001926	0.0001963	0.0001567
Std. Dev.	5.091E-05	0.0001044	3.671E-05	3.212E-05	0.0001129	5.886E-05
Upper Lim.	0.0002	0.00022	0.0002	0.0002	0.0002483	0.0002
Lower Lim.	0.00014	0.00013	4E-05	6E-05	0.0001291	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-108D	B-111D
8/17/2020	<0.01					
9/25/2020	<0.01					
12/9/2020				0.0012 (J)	<0.01	0.0055 (J)
12/17/2020			<0.01			
1/11/2021			<0.01			
1/12/2021		0.0022 (J)		<0.01		0.0054 (J)
3/4/2021			<0.01	<0.01	<0.01	
3/5/2021		<0.01				0.0067 (J)
3/8/2021	<0.01					
9/10/2021			<0.01			
9/13/2021	<0.01	<0.01				
9/14/2021				<0.01	<0.01	0.013
1/21/2022	<0.01					
1/24/2022				0.00083 (J)	<0.01	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)		<0.01	
9/16/2022		<0.01				
2/2/2023	0.19		<0.01			
2/3/2023		<0.01		<0.01		
2/7/2023					<0.01	0.0077 (J)
9/6/2023	<0.01					
9/8/2023		<0.01				
9/11/2023			<0.01			
9/13/2023				0.00092 (J)	0.00078 (J)	0.0071 (J)
Mean	0.0325	0.008886	0.008937	0.006619	0.008683	0.007188
Std. Dev.	0.06364	0.002948	0.003005	0.004668	0.003485	0.002518
Upper Lim.	0.19	0.01	0.01	0.01	0.01	0.013
Lower Lim.	0.01	0.0022	0.0015	0.00083	0.00078	0.0052

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-66	B-82	B-88	B-98	DGWC-13
9/6/2016						0.0371
12/7/2016						0.0273
3/30/2017						0.03
7/12/2017						0.0323
11/15/2017						0.0275
2/28/2018						0.0093 (J)
11/7/2018						0.018
1/30/2019		<0.01				
8/28/2019						0.015
9/12/2019		0.0018 (J)				
9/23/2019			<0.01			
10/16/2019						0.014
10/21/2019		0.0015 (J)	<0.01			
3/3/2020						0.018
8/12/2020						0.012
8/17/2020			<0.01	0.0012 (J)		
9/23/2020						0.012
9/25/2020				0.0012 (J)		
9/28/2020			<0.01			
3/2/2021						0.011
3/5/2021				<0.01		
4/15/2021	0.00089 (J)					
9/9/2021						0.011
9/13/2021				<0.01		
9/14/2021	<0.01	<0.01	<0.01			
9/15/2021					<0.01	
1/20/2022	<0.01					
1/25/2022		<0.01	<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	<0.01		
9/19/2022	<0.01					
1/31/2023					0.0014 (J)	
2/1/2023						0.0085 (J)
2/3/2023	<0.01					
2/7/2023		<0.01	<0.01	<0.01		
9/6/2023					0.00075 (J)	
9/8/2023						0.0073 (J)
9/11/2023		<0.01	0.00081 (J)			
9/12/2023	<0.01			<0.01		
Mean	0.008482	0.007912	0.008979	0.0078	0.002898	0.01717
Std. Dev.	0.003719	0.003866	0.003063	0.004074	0.003984	0.009402
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.02133
Lower Lim.	0.00089	0.0015	0.00081	0.0012	0.00075	0.0112

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-22	DGWC-23	DGWC-4
9/2/2016		<0.01		
12/8/2016		<0.01		
3/28/2017				0.008 (J)
3/29/2017		<0.01		
3/30/2017	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			0.0092 (J)	
7/13/2017		<0.01		
10/24/2017	<0.01			0.0072 (J)
10/25/2017		<0.01		
10/26/2017			0.0077 (J)	
2/27/2018	<0.01			0.0069 (J)
2/28/2018		<0.01		
3/1/2018			0.0045 (J)	
7/11/2018	<0.01			
7/12/2018		<0.01	0.012	
11/6/2018	<0.01			<0.01 (J)
11/7/2018		<0.01		
11/8/2018			0.012	
8/27/2019	0.002 (J)			0.0065 (J)
8/29/2019		<0.01	0.014	
10/15/2019				0.0061 (J)
10/17/2019	0.0018 (J)			
10/18/2019		<0.01	0.0091 (J)	
3/2/2020				0.0059 (J)
3/3/2020	0.0022 (J)	<0.01		
3/4/2020			0.0047 (J)	
8/11/2020	0.002 (J)			
8/12/2020				0.0057 (J)
8/13/2020			0.013	
8/14/2020		<0.01		
9/22/2020				0.0028 (J)
9/23/2020	0.0022 (J)			
9/24/2020		<0.01	0.0088 (J)	
3/1/2021				0.0051 (J)
3/2/2021	0.0021 (J)			
3/3/2021		<0.01	0.0026 (J)	
9/9/2021	0.0023 (J)		0.01	
9/10/2021		<0.01		0.0052 (J)
1/20/2022	0.0022 (J)	<0.01	0.0073 (J)	
1/24/2022				0.0045 (J)
9/16/2022		<0.01		
9/19/2022				0.0037 (J)
9/20/2022	0.0021 (J)		0.0095 (J)	
2/3/2023				0.0035 (J)
2/6/2023	0.0021 (J)	<0.01	0.007 (J)	
9/11/2023		0.00097 (J)	0.0088 (J)	
9/13/2023	0.0022 (J)			0.0034 (J)
Mean	0.004474	0.009525	0.008816	0.005233

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-22	DGWC-23	DGWC-4
Std. Dev.	0.003876	0.002072	0.002892	0.001445
Upper Lim.	0.01	0.01	0.01051	0.006107
Lower Lim.	0.002	0.00097	0.007122	0.004359

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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	
9/6/2023	<0.005					
9/8/2023		<0.005				
9/12/2023						0.0052
9/13/2023			0.0016 (J)	<0.005	<0.005	
Mean	0.004612	0.004729	0.003512	0.004514	0.00465	0.003317
Std. Dev.	0.001096	0.0007181	0.001659	0.001285	0.0009899	0.001568
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.00547
Lower Lim.	0.0019	0.0031	0.0016	0.0016	0.0022	0.001163

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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)	
9/6/2023						0.0049 (J)
9/8/2023	0.0087					
9/11/2023			0.0018 (J)			
9/12/2023		<0.005		0.02	0.0027 (J)	
Mean	0.01241	0.00467	0.003333	0.02036	0.0025	0.00722
Std. Dev.	0.006956	0.001044	0.001599	0.005821	0.0005831	0.003218
Upper Lim.	0.029	0.005	0.005	0.02598	0.003118	0.01261
Lower Lim.	0.0066	0.005	0.0016	0.01474	0.001882	0.001827

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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	
9/6/2023	0.0071	0.0031 (J)	<0.005			
9/8/2023						0.0029 (J)
9/11/2023				0.038	<0.005	
Mean	0.01386	0.00276	0.00466	0.03407	0.004145	0.004822
Std. Dev.	0.009758	0.0008264	0.0007603	0.02062	0.002061	0.002889
Upper Lim.	0.02241	0.004145	0.005	0.04655	0.005	0.00421

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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
Lower Lim.	0.005907	0.001375	0.0033	0.0216	0.0019	0.002216

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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)		<0.005	
5/11/2017					<0.005	
6/15/2017					<0.005	
7/11/2017					<0.005	
7/12/2017	<0.005	<0.005	0.0072 (J)	0.0065 (J)		0.0483
10/24/2017					<0.005	
10/25/2017	<0.005	<0.005	0.0078 (J)	0.0087 (J)		0.0506
2/27/2018	<0.005				<0.005	
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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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
9/8/2023	0.0015 (J)	<0.005		0.0045 (J)		
9/11/2023						0.14
9/13/2023			0.0065		<0.005	
Mean	0.003837	0.005095	0.007595	0.006542	0.004695	0.05575
Std. Dev.	0.002253	0.001396	0.002204	0.002364	0.001819	0.03015
Upper Lim.	0.005	0.01	0.008513	0.007927	0.0051	0.0734
Lower Lim.	0.0016	0.0018	0.006353	0.005158	0.0037	0.03809

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 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
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
9/11/2023	<0.005					
9/12/2023			0.0022 (J)			<0.005
9/13/2023		<0.005		<0.005	0.002 (J)	
Mean	0.004826	0.0048	0.007389	0.005484	0.02699	0.004678
Std. Dev.	0.0007571	0.0008485	0.005849	0.00304	0.03855	0.001883
Upper Lim.	0.005	0.005	0.009789	0.00607	0.03402	0.0069
Lower Lim.	0.0017	0.0014	0.003722	0.002576	0.007935	0.0031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	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 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-56	B-66	B-82	B-83	B-88
1/30/2019			<0.001			
9/12/2019			<0.001			
9/23/2019				9.9E-05 (J)		
10/21/2019			<0.001	0.00011 (J)	7.2E-05 (J)	
8/14/2020					<0.001	
8/17/2020		0.00016 (J)		<0.001		<0.001
9/25/2020					<0.001	<0.001
9/28/2020		0.00023 (J)		<0.001		
12/9/2020	<0.001					
1/12/2021	<0.001					
3/3/2021		0.00026 (J)				
3/4/2021	<0.001				<0.001	
3/5/2021						0.0002 (J)
9/13/2021		0.00024 (J)				<0.001
9/14/2021	<0.001		<0.001	<0.001		
9/16/2021					<0.001	
1/21/2022					<0.001	
1/24/2022	<0.001					
1/25/2022			<0.001	<0.001		
1/27/2022		0.00032 (J)				<0.001
9/13/2022	<0.001				<0.001	
9/16/2022		0.00024 (J)	<0.001	<0.001		<0.001
2/3/2023	<0.001				<0.001	
2/7/2023		0.00028 (J)	<0.001	<0.001		<0.001
9/8/2023		0.00021 (J)				
9/11/2023			0.00021 (J)	<0.001		
9/12/2023					<0.001	<0.001
9/13/2023	0.00028 (J)					
Mean	0.00091	0.0002425	0.0009013	0.000801	0.0008969	0.0009
Std. Dev.	0.0002546	4.743E-05	0.0002793	0.0003949	0.0003093	0.0002828
Upper Lim.	0.001	0.0002928	0.001	0.001	0.001	0.001
Lower Lim.	0.00028	0.0001922	0.00021	9.9E-05	7.2E-05	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	DGWC-10	DGWC-12	DGWC-14	DGWC-17	DGWC-19
8/31/2016		0.0004 (J)		<0.001		
9/1/2016			<0.001			0.0005 (J)
9/7/2016					<0.001	
12/6/2016		0.0004 (J)		<0.001		
12/7/2016			<0.001			0.0005 (J)
12/8/2016					<0.001	
3/29/2017		0.0006 (J)	8E-05 (J)	<0.001		0.0004 (J)
3/30/2017					0.0002 (J)	
7/12/2017		0.0005 (J)	9E-05 (J)	<0.001	0.0002 (J)	0.0005 (J)
10/24/2017		0.0004 (J)				
10/25/2017			9E-05 (J)	<0.001	0.0002 (J)	0.0004 (J)
2/27/2018		<0.01	<0.001	<0.001		
2/28/2018					0.00015 (J)	0.00049 (J)
7/11/2018			<0.001	<0.001	0.00017 (J)	0.0005 (J)
11/6/2018		<0.001 (J)				
11/7/2018			<0.001	<0.001	<0.001	<0.001 (J)
8/27/2019		0.00036 (J)	8.9E-05 (J)	<0.001	0.00018 (J)	
8/28/2019						0.00053 (J)
9/17/2019			9.7E-05 (J)			
10/15/2019		0.00039 (J)	9.1E-05 (J)			
10/16/2019				<0.001		0.00053 (J)
10/18/2019					0.00014 (J)	
3/2/2020			0.00013 (J)			
3/3/2020		0.00042 (J)		<0.001		0.0006 (J)
3/4/2020					0.00019 (J)	
8/11/2020		0.00037 (J)	<0.001	<0.001		0.00059 (J)
8/14/2020					0.00019 (J)	
9/22/2020			<0.001	<0.001		0.0005 (J)
9/24/2020		0.00034 (J)			0.00018 (J)	
3/2/2021				<0.001		0.00056 (J)
3/3/2021			<0.001		0.00017 (J)	
3/4/2021		0.00042 (J)				
9/9/2021			<0.001	<0.001		0.00056 (J)
9/10/2021		0.00027 (J)				
9/13/2021					<0.001	
9/15/2021	<0.001					
1/24/2022					<0.001	
1/25/2022			<0.001	<0.001		0.00057 (J)
1/26/2022	<0.001	0.00033 (J)				
9/12/2022	0.0002 (J)					
9/13/2022				<0.001		
9/14/2022					<0.001	0.00056 (J)
9/15/2022		<0.01	<0.001			
1/31/2023	0.00021 (J)					
2/1/2023				<0.001		
2/2/2023		<0.01				
2/6/2023			<0.001		<0.001	0.00059 (J)
9/6/2023	<0.001					
9/8/2023				0.00056 (J)		0.0005 (J)
9/11/2023		<0.01	0.00021 (J)			
9/13/2023					<0.001	
Mean	0.000682	0.002567	0.0006439	0.0009768	0.0005247	0.00052

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	DGWC-10	DGWC-12	DGWC-14	DGWC-17	DGWC-19
Std. Dev.	0.0004355	0.004091	0.0004483	0.0001009	0.0004167	5.588E-05
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0005534
Lower Lim.	0.0002	0.00036	9.1E-05	0.00056	0.00017	0.0004903

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					0.0002 (J)	<0.001
9/2/2016	<0.1	<0.001				
9/7/2016				<0.001		
12/7/2016	0.0006 (J)					
12/8/2016		<0.001		<0.001	<0.001	<0.001
3/28/2017			<0.001			
3/29/2017	0.0006 (J)	6E-05 (J)				
3/30/2017						9E-05 (J)
3/31/2017				9E-05 (J)	0.0002 (J)	
5/12/2017			<0.001			
6/15/2017			<0.001			
7/11/2017			<0.001			
7/12/2017	0.0006 (J)					
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)	7E-05 (J)		9E-05 (J)		
10/26/2017					0.0003 (J)	9E-05 (J)
2/27/2018			<0.001			
2/28/2018	<0.1	<0.001		<0.001		
3/1/2018					0.00032 (J)	
3/2/2018						<0.001
7/11/2018	<0.1			<0.001		
7/12/2018		<0.001			0.00031 (J)	<0.001
11/6/2018			<0.001			
11/7/2018	<0.001 (J)	<0.001		<0.001	<0.001 (J)	<0.001
8/27/2019			<0.001			
8/28/2019				6.9E-05 (J)		
8/29/2019	0.00084 (J)	6.4E-05 (J)			0.00025 (J)	7.8E-05 (J)
10/15/2019			7.3E-05 (J)			
10/17/2019	0.00062 (J)			<0.001	0.00025 (J)	
10/18/2019		<0.001				<0.001
3/2/2020			<0.001			
3/3/2020		7E-05 (J)				
3/4/2020	0.0023 (J)			<0.001	0.00021 (J)	6.8E-05 (J)
8/12/2020			<0.001		0.00018 (J)	
8/13/2020	0.0016 (J)			<0.001		<0.001
8/14/2020		<0.001				
9/22/2020	0.00055 (J)		<0.001	<0.001		
9/23/2020					0.00026 (J)	<0.001
9/24/2020		<0.001				
3/1/2021			<0.001			
3/2/2021	0.0014 (J)					
3/3/2021		<0.001		<0.001	0.00023 (J)	<0.001
9/10/2021	0.00052 (J)	<0.001	<0.001		0.00036 (J)	<0.001
9/13/2021				<0.001		
1/20/2022		<0.001		<0.001		
1/21/2022	<0.1				0.00028 (J)	
1/24/2022			<0.001			<0.001
9/13/2022				<0.001	0.00021 (J)	<0.001
9/15/2022	0.001 (J)					
9/16/2022		<0.001				
9/19/2022			<0.001			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/1/2023				0.00028 (J)		
2/3/2023			<0.001		0.00022 (J)	<0.001
2/6/2023		<0.001				
2/7/2023	0.0018 (J)					
9/11/2023	<0.1	<0.001				
9/12/2023					0.00019 (J)	
9/13/2023			<0.001	<0.001		<0.001
Mean	0.02705	0.0007544	0.0009485	0.0007694	0.0002721	0.0007582
Std. Dev.	0.04479	0.0004222	0.0002185	0.0003986	9.437E-05	0.0004157
Upper Lim.	0.1	0.001	0.001	0.001	0.00032	0.001
Lower Lim.	0.0006	7E-05	7.3E-05	0.00028	0.0002	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 2:23 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	<0.001		
12/6/2016	<0.001	<0.001	0.0006 (J)
3/28/2017	0.0002 (J)		0.0007 (J)
3/29/2017		0.0002 (J)	
7/11/2017	<0.001	0.0001 (J)	0.0007 (J)
10/24/2017		0.0003 (J)	0.0006 (J)
10/25/2017	<0.001		
2/27/2018	<0.001	0.00033 (J)	0.00038 (J)
7/11/2018			<0.005
11/6/2018	<0.001	<0.001 (J)	<0.005
8/27/2019	<0.001		0.00053 (J)
8/28/2019		0.00022 (J)	
10/16/2019	7.8E-05 (J)	0.00025 (J)	
10/17/2019			0.00076 (J)
3/2/2020	6.2E-05 (J)		
3/3/2020		0.00023 (J)	0.00044 (J)
8/11/2020			<0.005
8/12/2020	<0.001	0.00023 (J)	
9/22/2020	<0.001		0.00043 (J)
9/23/2020		0.0002 (J)	
3/2/2021	<0.001	0.00019 (J)	<0.005
9/10/2021	<0.001		0.0004 (J)
9/13/2021		0.00019 (J)	
1/24/2022	<0.001		
1/25/2022		0.00019 (J)	
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	
9/12/2023		<0.001	
9/13/2023	<0.001		
Mean	0.0008522	0.0004794	0.00253
Std. Dev.	0.000341	0.0003817	0.002276
Upper Lim.	0.001	0.001	0.005
Lower Lim.	0.0002	0.00019	0.00044

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

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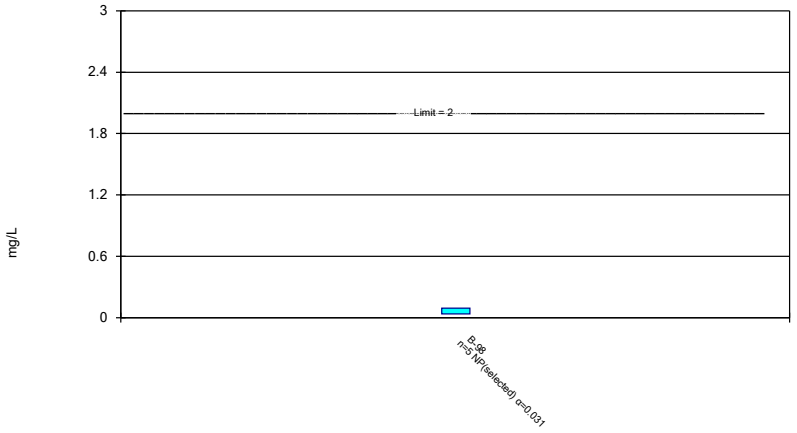
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Barium Analysis Run 1/16/2024 2:19 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

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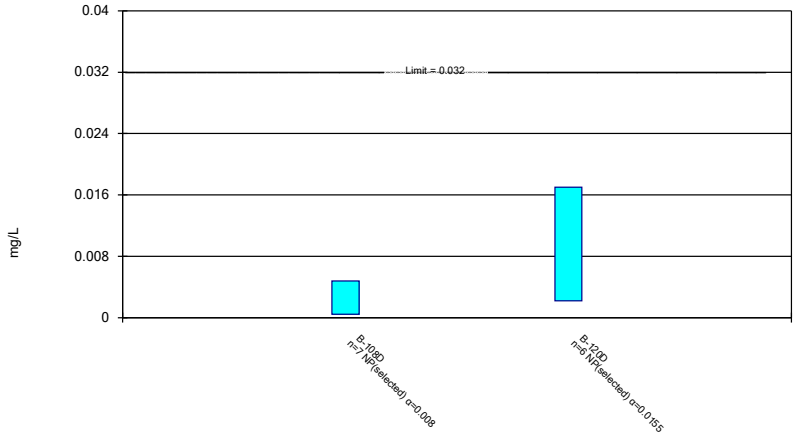
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 1/16/2024 2:19 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

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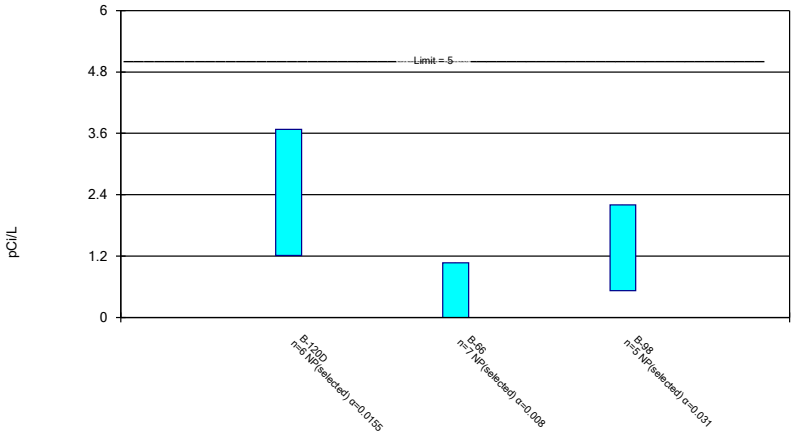
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 2:19 PM View: AP 234 Confidence Inte

Plant McDonough Client: Southern Company Data: McDonough AP

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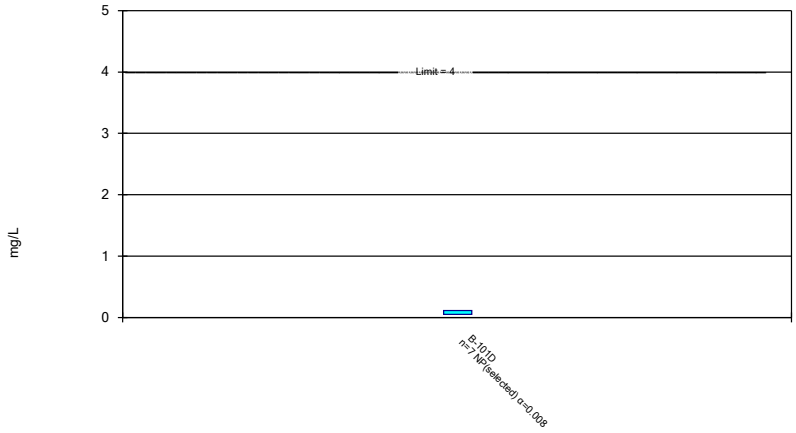
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Fluoride Analysis Run 1/16/2024 2:19 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals Nonparametric
Plant McDonough Client: Southern Company Data: McDonough AP

	B-98
9/15/2021	0.082
1/26/2022	0.035
9/13/2022	0.092
1/31/2023	0.041
9/6/2023	0.051
Mean	0.0602
Std. Dev.	0.02537
Upper Lim.	0.092
Lower Lim.	0.035

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	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)	
9/12/2023		0.0022 (J)
9/13/2023	0.00045 (J)	
Mean	0.001609	0.005733
Std. Dev.	0.001488	0.005668
Upper Lim.	0.0048	0.017
Lower Lim.	0.00045	0.0022

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 2:23 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)	
9/6/2023			1.22
9/11/2023		0.736 (U)	
9/12/2023	1.74		
Mean	2.162	0.6854	1.369
Std. Dev.	0.8412	0.3655	0.7274
Upper Lim.	3.68	1.07	2.2
Lower Lim.	1.21	0	0.52

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/16/2024 2:23 PM View: AP 234 Confidence Intervals Nonparametric

Plant McDonough Client: Southern Company Data: McDonough AP

	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
9/8/2023	<0.1
Mean	0.08071
Std. Dev.	0.02712
Upper Lim.	0.11
Lower Lim.	0.051

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0004561**	**-84**	**-58**	**Yes**	**19**	**42.11**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-47**	**-0.0008064**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0003897**	**-108**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-5**	**0.0003568**	**54**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-56**	**0.004968**	**21**	**17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003507**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**55**	**53**	**Yes**	**18**	**72.22**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01964**	**-91**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-20**	**0.06798**	**80**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.0361**	**-121**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03946**	**-150**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.0136**	**-115**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4485**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**B-120D**	**-0.01173**	**-13**	**-12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWA-71 (bg)**	**-0.0000751**	**-58**	**-53**	**Yes**	**18**	**16.67**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005638**	**-117**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005967**	**-120**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 1/16/2024, 2:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	6	58	No	19	57.89	n/a	0.05	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-25	-58	No	19	84.21	n/a	0.05	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	26	53	No	18	83.33	n/a	0.05	NP
Arsenic (mg/L)	DGWC-9	-0.0006814	-17	-53	No	18	5.556	n/a	0.05	NP
Beryllium (mg/L)	B-92	-0.001601	-10	-15	No	7	0	n/a	0.05	NP
Beryllium (mg/L)	B-93	0.0004174	8	20	No	9	0	n/a	0.05	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-16	-58	No	19	94.74	n/a	0.05	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.0004561**	**-84**	**-58**	**Yes**	**19**	**42.11**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.000009929	-48	-58	No	19	26.32	n/a	0.05	NP
Beryllium (mg/L)	DGWC-10	0.0002702	18	53	No	18	0	n/a	0.05	NP
Beryllium (mg/L)	**DGWC-47**	**-0.0008064**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.0003897**	**-108**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-5**	**0.0003568**	**54**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWC-9	-0.00002099	-6	-53	No	18	0	n/a	0.05	NP
Cobalt (mg/L)	B-104D	0	-1	-17	No	8	0	n/a	0.05	NP
Cobalt (mg/L)	**B-56**	**0.004968**	**21**	**17**	**Yes**	**8**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	B-63	-0.001742	-5	-20	No	9	0	n/a	0.05	NP
Cobalt (mg/L)	B-93	-0.003036	-15	-20	No	9	0	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003507**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	45	58	No	19	57.89	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**55**	**53**	**Yes**	**18**	**72.22**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01964**	**-91**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWC-19	0	-6	-58	No	19	0	n/a	0.05	NP
Cobalt (mg/L)	**DGWC-20**	**0.06798**	**80**	**58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.0361**	**-121**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03946**	**-150**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.0136**	**-115**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	B-104D	-1.115	-10	-17	No	8	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4485**	**-87**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.002769	0	62	No	20	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.004534	-4	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	**B-120D**	**-0.01173**	**-13**	**-12**	**Yes**	**6**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	DGWA-53 (bg)	-0.0001165	-31	-58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	DGWA-70A (bg)	0	27	58	No	19	84.21	n/a	0.05	NP
Lithium (mg/L)	**DGWA-71 (bg)**	**-0.0000751**	**-58**	**-53**	**Yes**	**18**	**16.67**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005638**	**-117**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.005967**	**-120**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**

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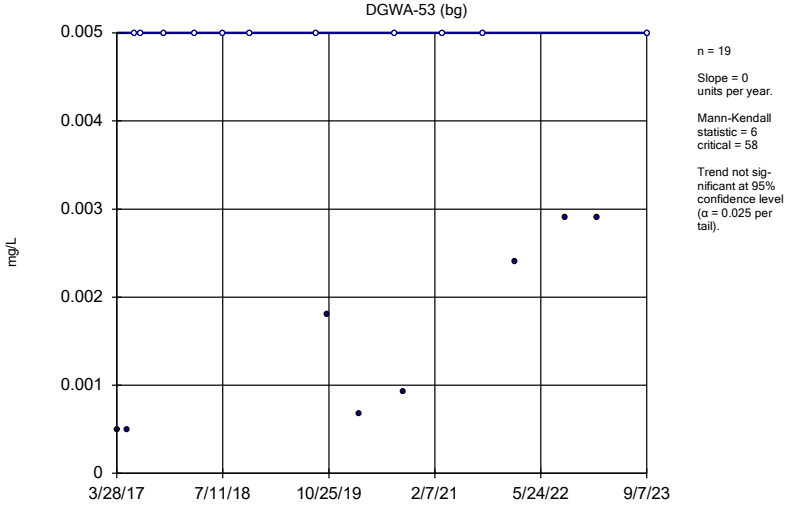
Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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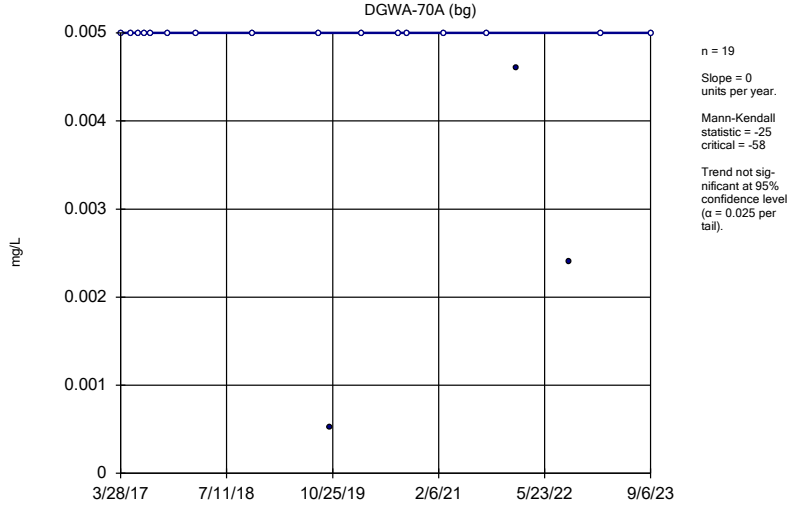
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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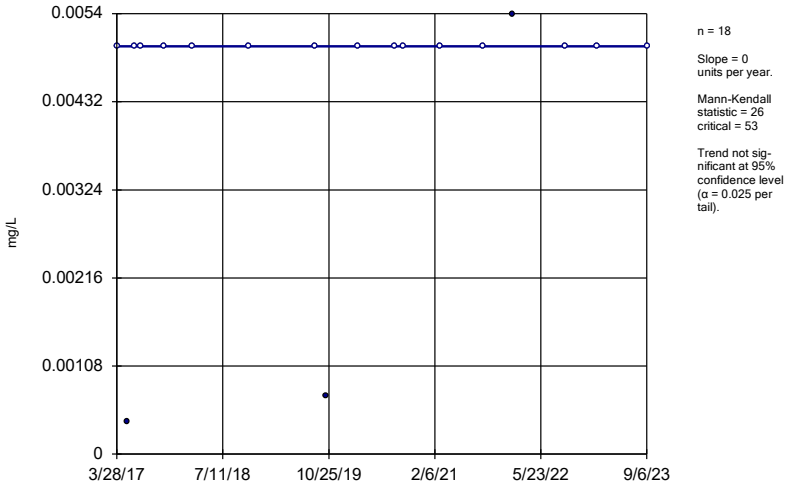
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 26
critical = 53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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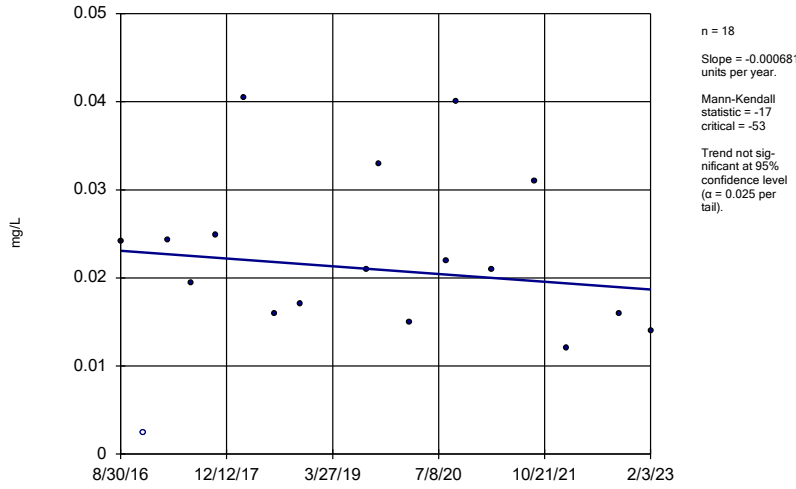
Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.0006814 units per year.

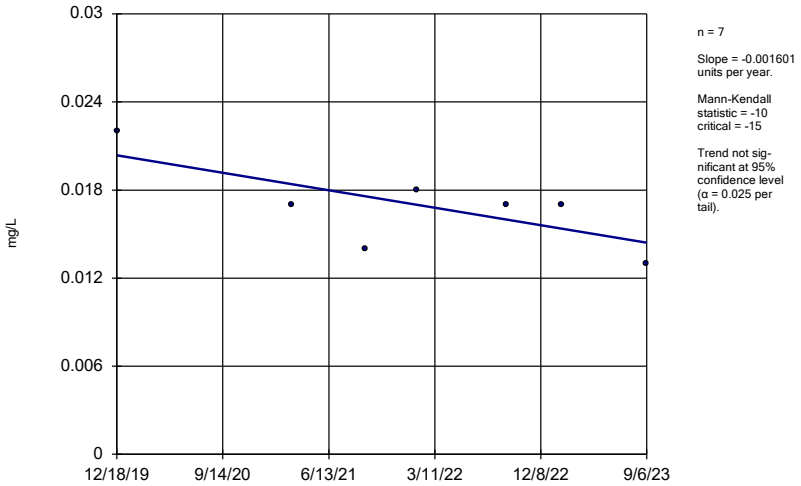
Mann-Kendall statistic = -17
critical = -53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-92



n = 7

Slope = -0.001601 units per year.

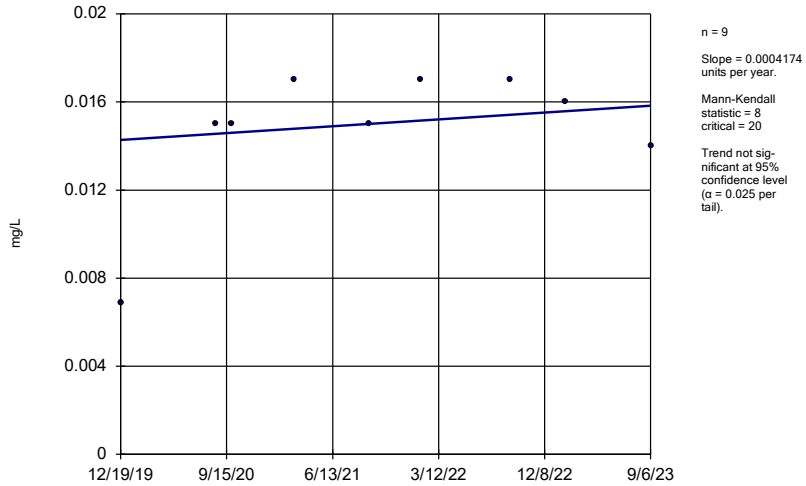
Mann-Kendall statistic = -10
critical = -15

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-93



n = 9

Slope = 0.0004174 units per year.

Mann-Kendall statistic = 8
critical = 20

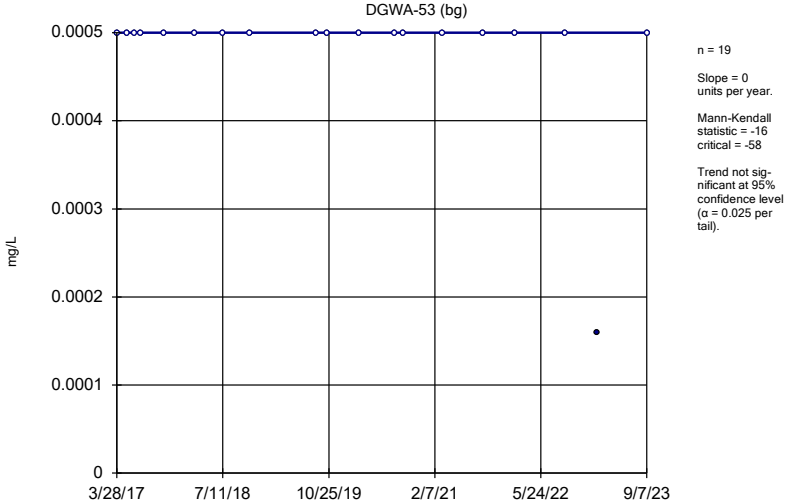
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -16
critical = -58

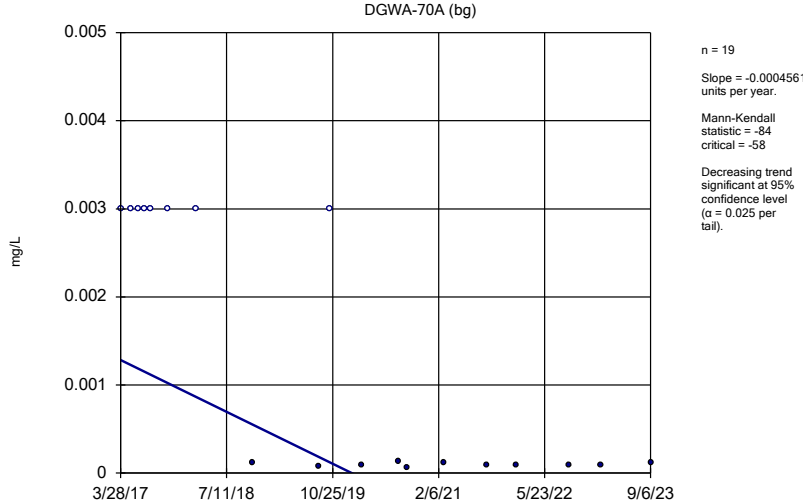
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = -0.0004561 units per year.

Mann-Kendall statistic = -84
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
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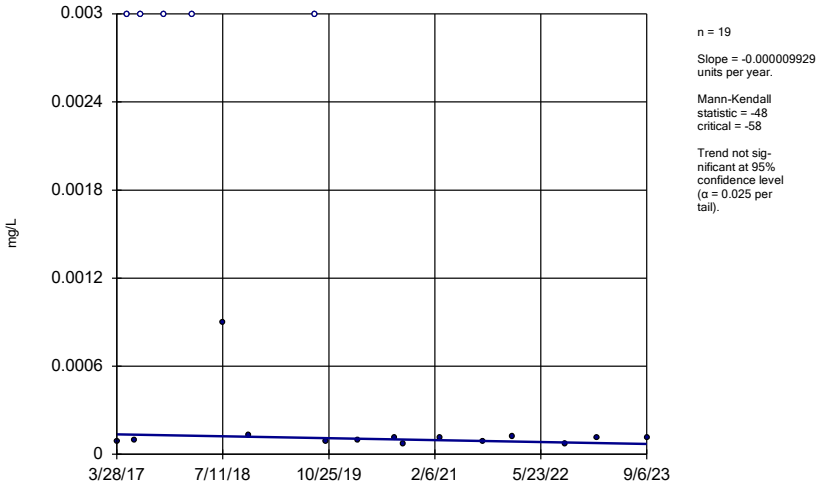
Sen's Slope Estimator

DGWA-71 (bg)



n = 19

Slope = -0.000009929 units per year.

Mann-Kendall statistic = -48
critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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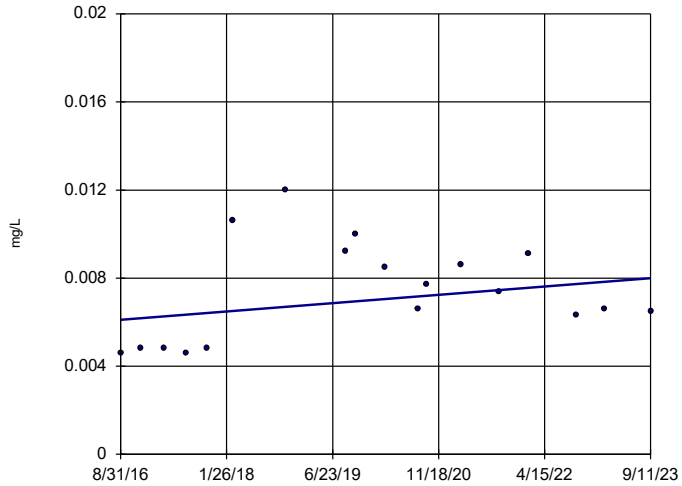
Sen's Slope Estimator

DGWC-10



n = 18

Slope = 0.0002702 units per year.

Mann-Kendall statistic = 18
critical = 53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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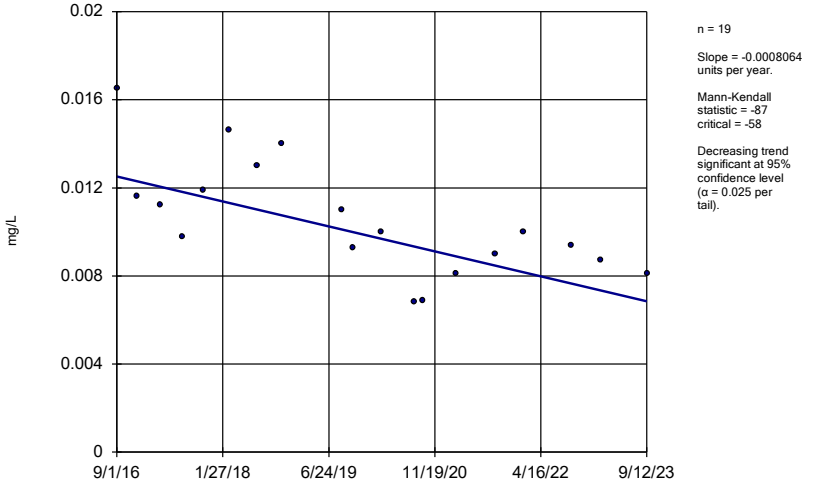
Sen's Slope Estimator

DGWC-47



n = 19

Slope = -0.0008064 units per year.

Mann-Kendall statistic = -87
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests

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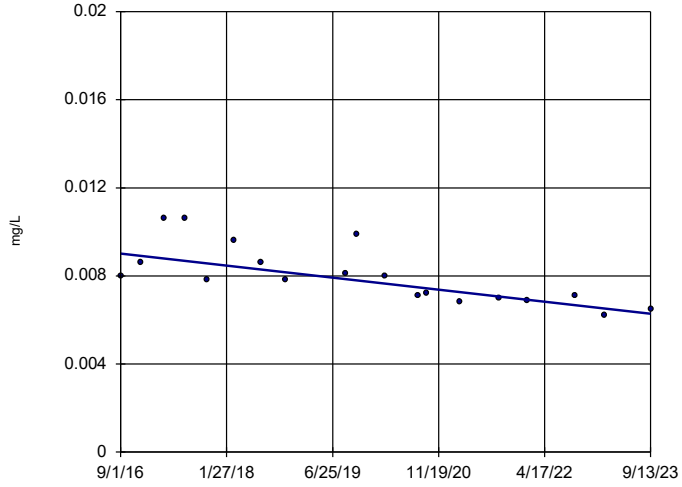
Sen's Slope Estimator

DGWC-48



n = 19

Slope = -0.0003897 units per year.

Mann-Kendall statistic = -108
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

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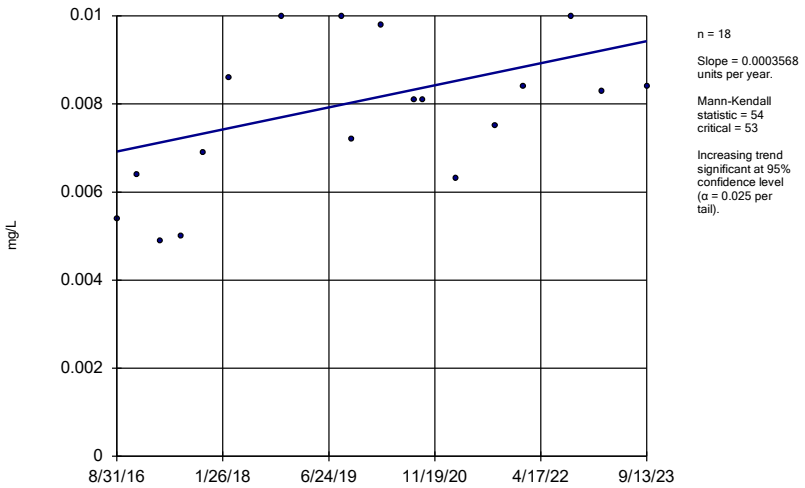
Sen's Slope Estimator

DGWC-5



n = 18

Slope = 0.0003568 units per year.

Mann-Kendall statistic = 54
critical = 53

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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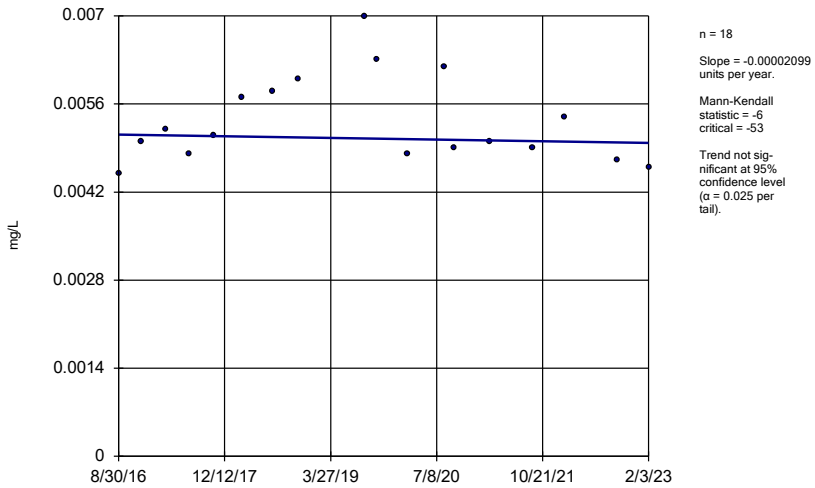
Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.00002099 units per year.

Mann-Kendall statistic = -6
critical = -53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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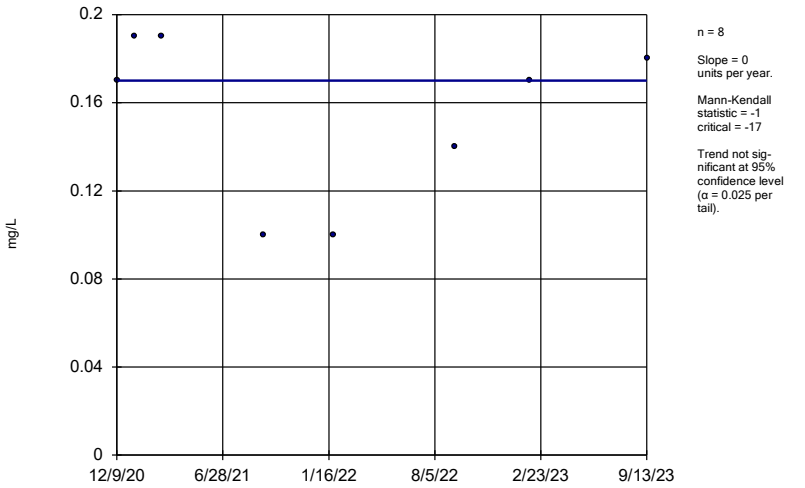
Sen's Slope Estimator

B-104D



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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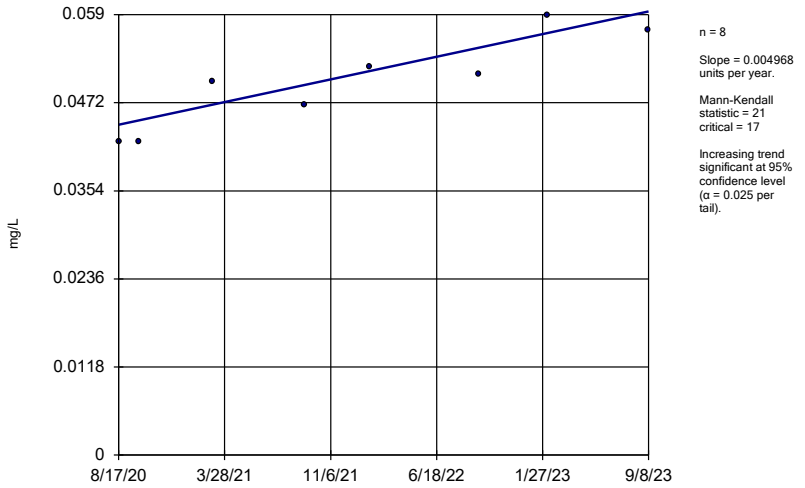
Sen's Slope Estimator

B-56



n = 8

Slope = 0.004968 units per year.

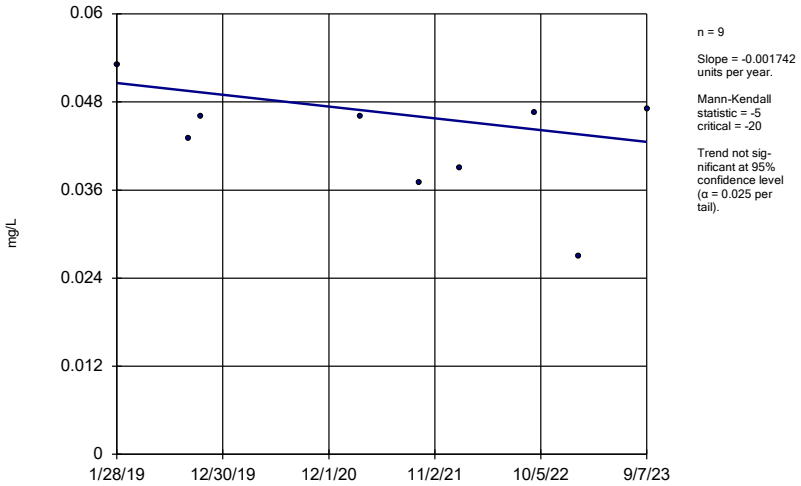
Mann-Kendall statistic = 21
critical = 17

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

B-63



n = 9

Slope = -0.001742 units per year.

Mann-Kendall statistic = -5
critical = -20

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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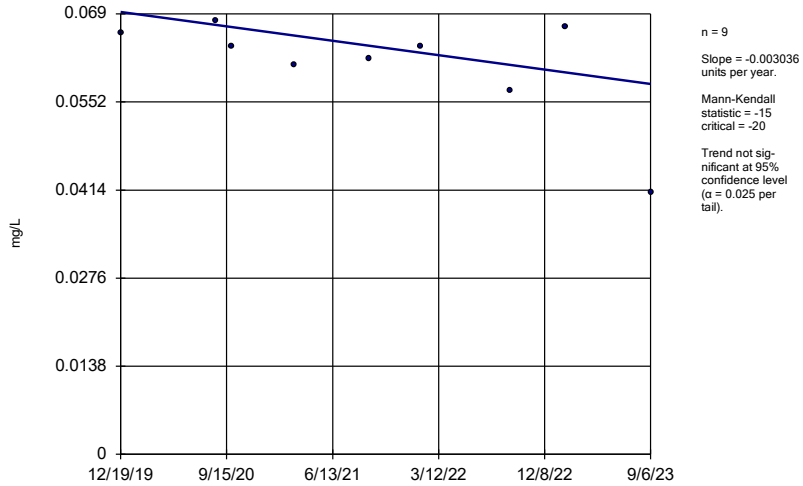
Sen's Slope Estimator

B-93



n = 9

Slope = -0.003036 units per year.

Mann-Kendall statistic = -15
critical = -20

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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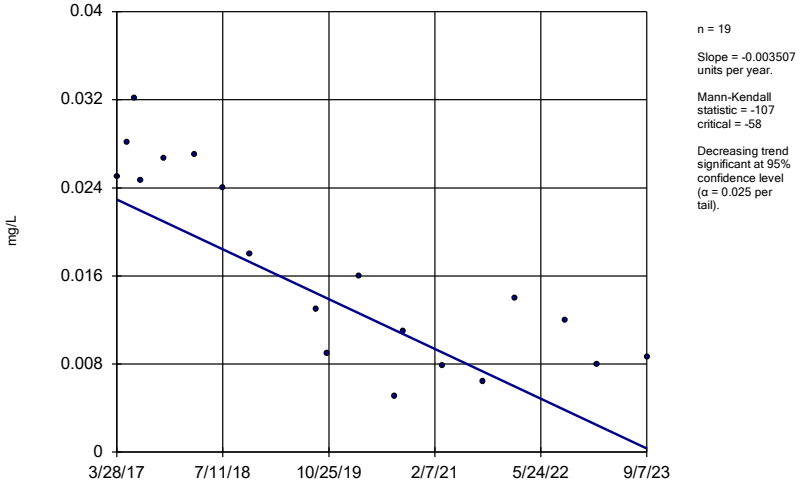
Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.003507 units per year.

Mann-Kendall statistic = -107
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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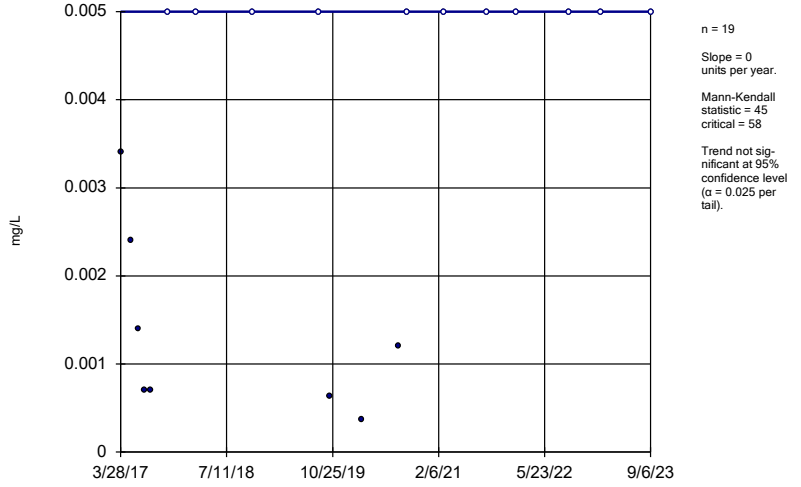
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 45
critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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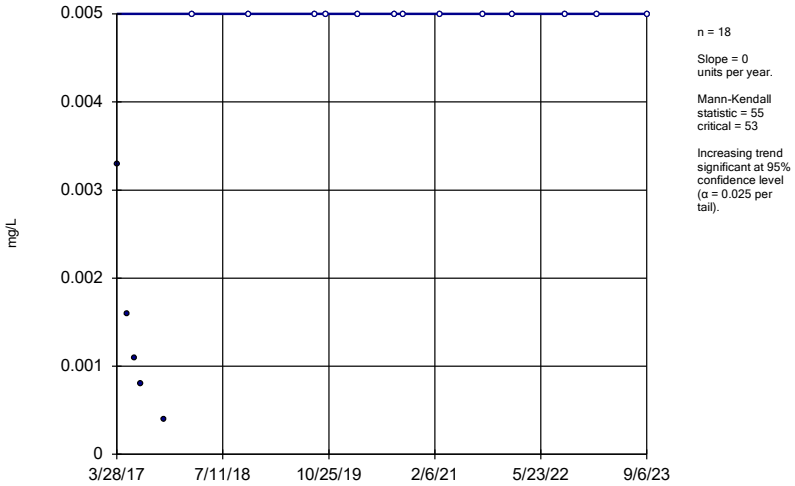
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 55 critical = 53

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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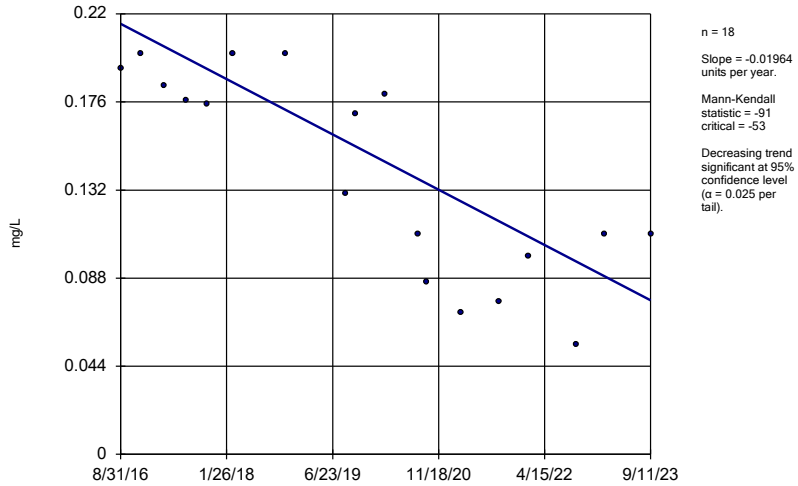
Sen's Slope Estimator

DGWC-10



n = 18

Slope = -0.01964 units per year.

Mann-Kendall statistic = -91 critical = -53

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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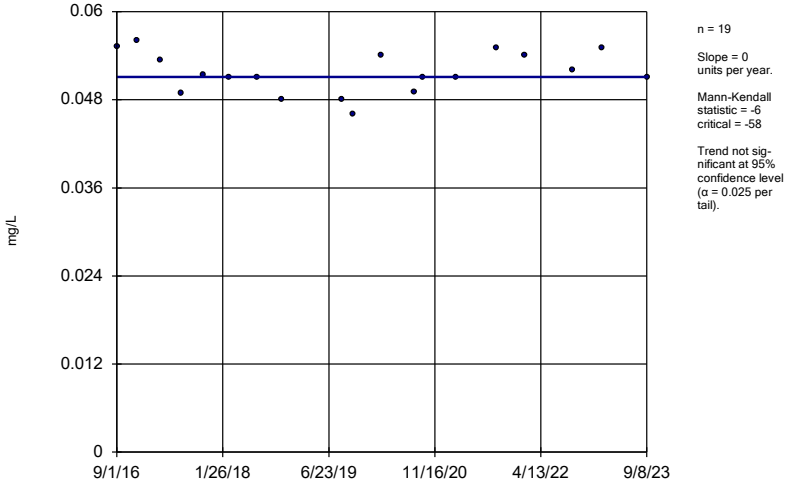
Sen's Slope Estimator

DGWC-19



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -6 critical = -58

Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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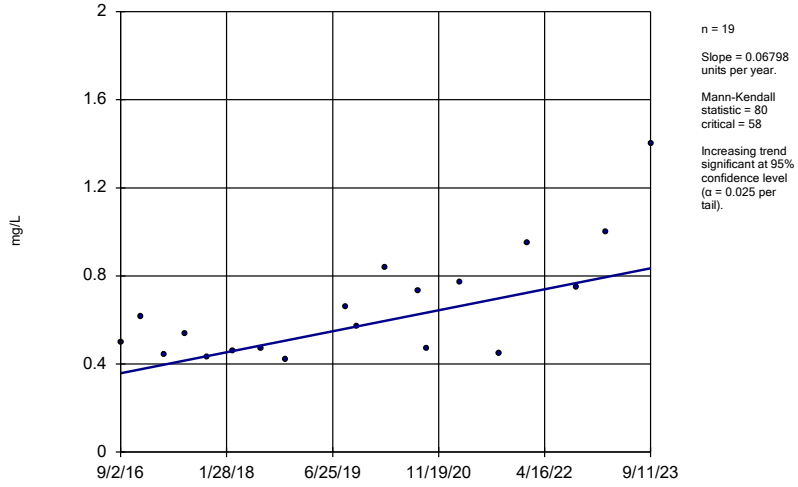
Sen's Slope Estimator

DGWC-20



n = 19

Slope = 0.06798 units per year.

Mann-Kendall statistic = 80 critical = 58

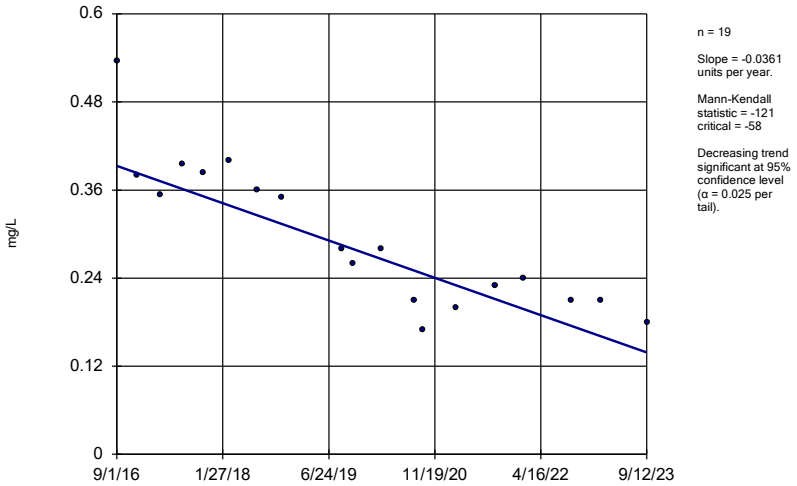
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWC-47



n = 19

Slope = -0.0361 units per year.

Mann-Kendall statistic = -121
critical = -58

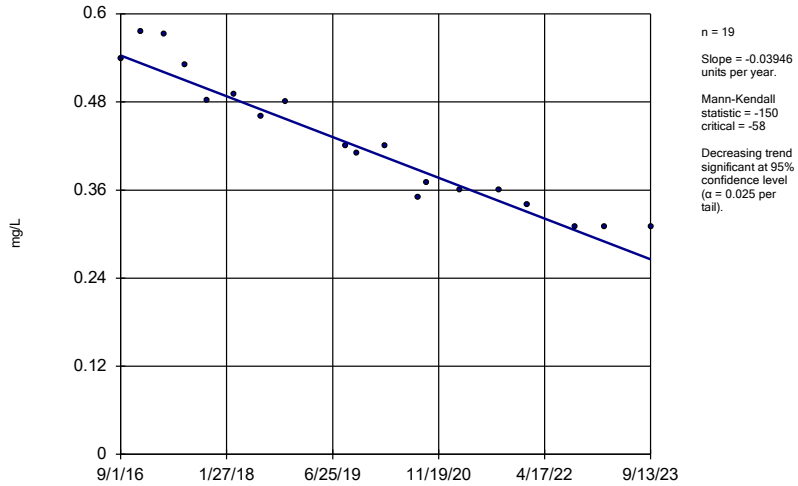
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWC-48



n = 19

Slope = -0.03946 units per year.

Mann-Kendall statistic = -150
critical = -58

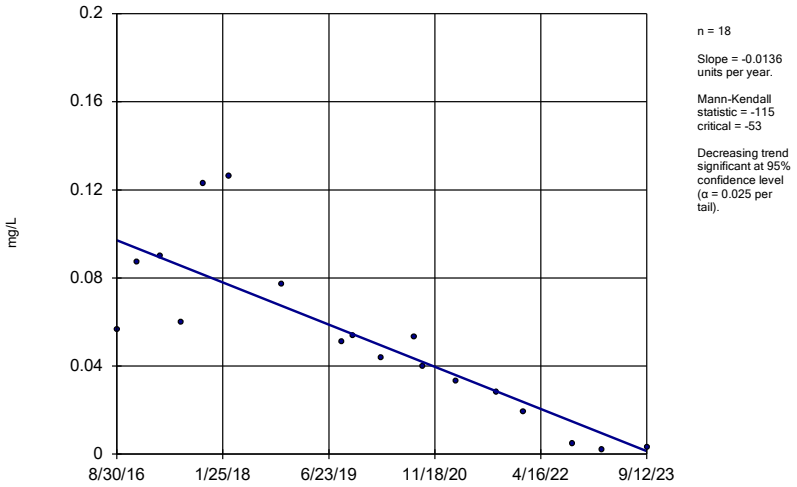
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWC-8



n = 18

Slope = -0.0136 units per year.

Mann-Kendall statistic = -115
critical = -53

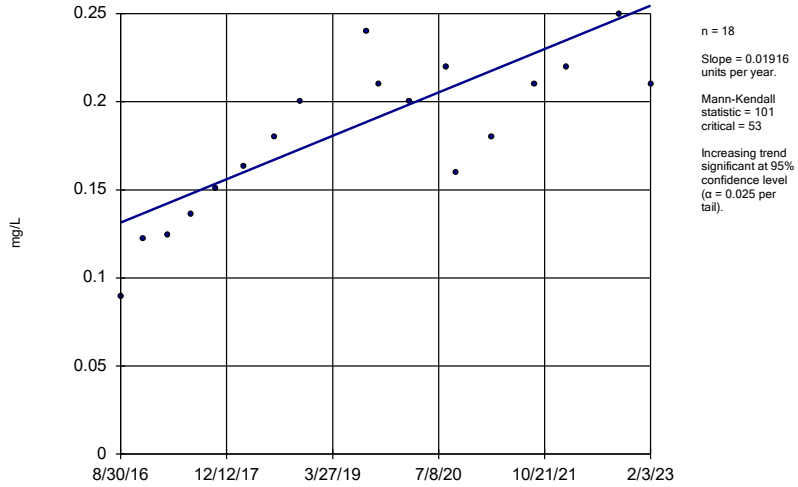
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWC-9



n = 18

Slope = 0.01916 units per year.

Mann-Kendall statistic = 101
critical = 53

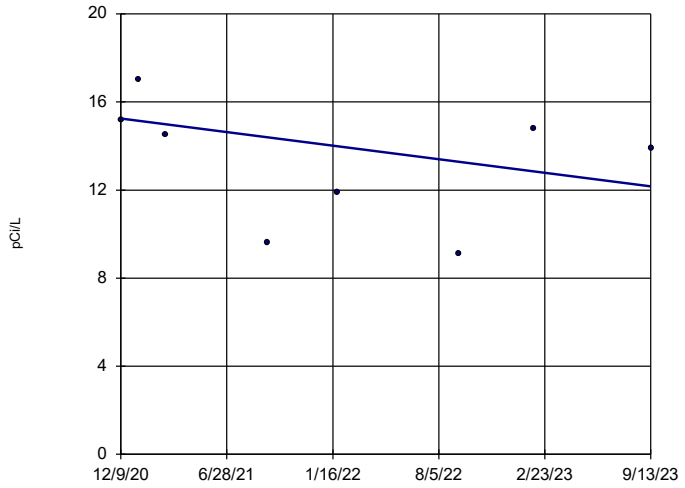
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

B-104D



n = 8

Slope = -1.115 units per year.

Mann-Kendall statistic = -10
critical = -17

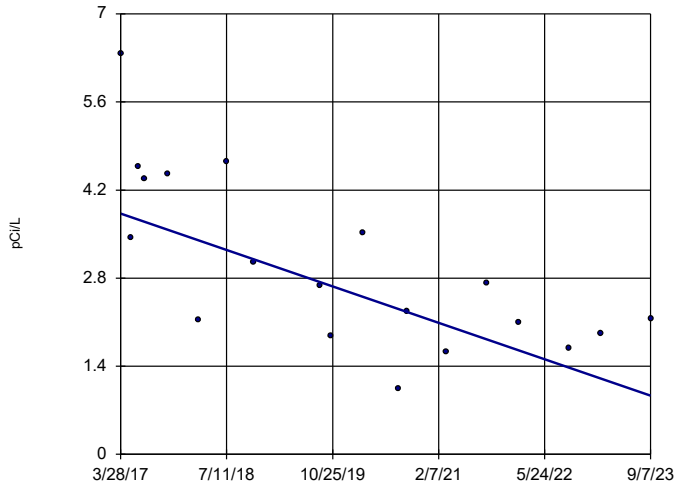
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.4485 units per year.

Mann-Kendall statistic = -87
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

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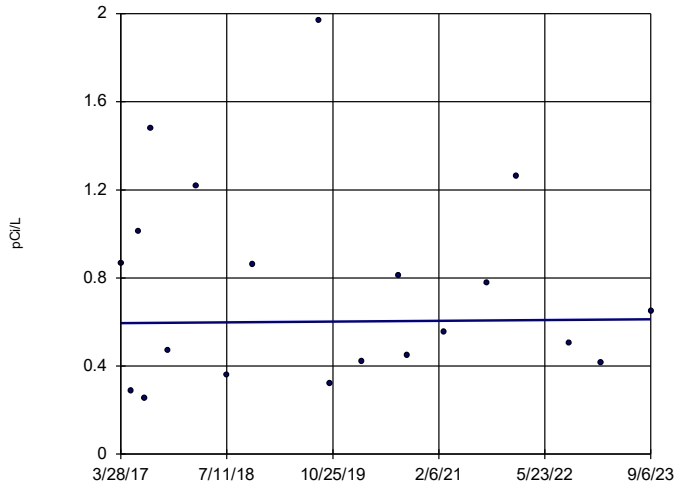
Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0.002769 units per year.

Mann-Kendall statistic = 0
critical = 62

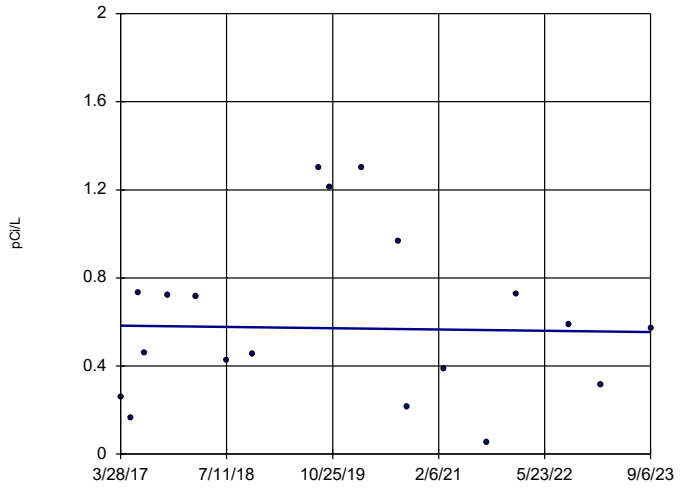
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 19

Slope = -0.004534 units per year.

Mann-Kendall statistic = -4
critical = -58

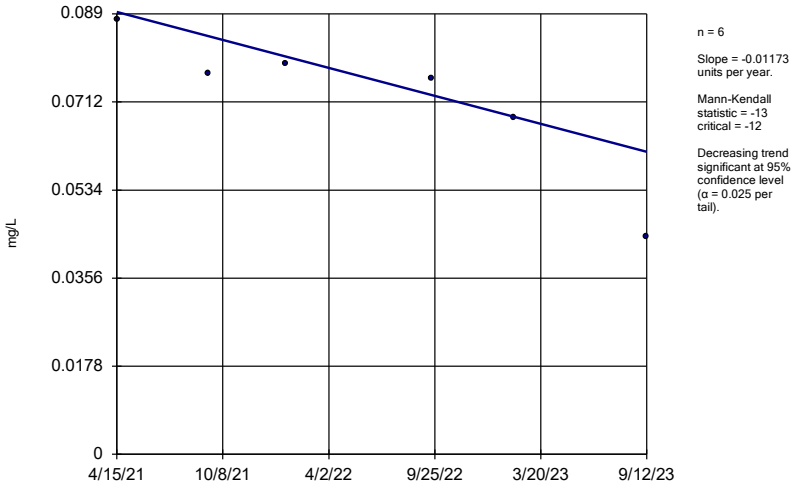
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Tr
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

B-120D



n = 6

Slope = -0.01173 units per year.

Mann-Kendall statistic = -13
critical = -12

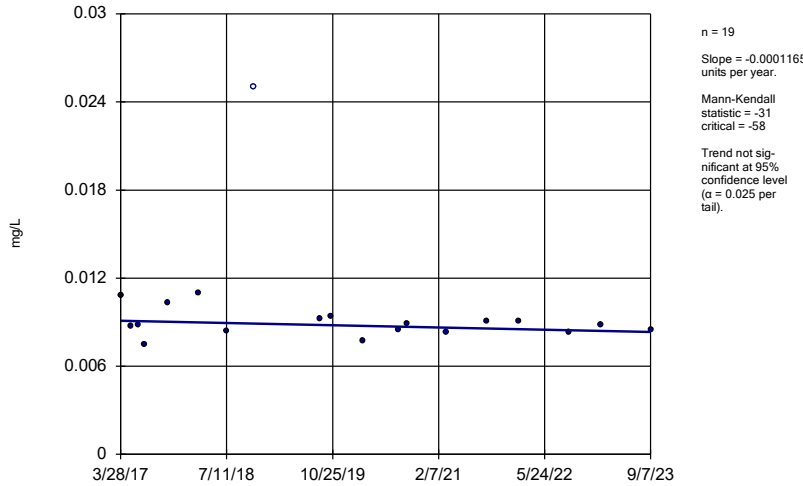
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.0001165 units per year.

Mann-Kendall statistic = -31
critical = -58

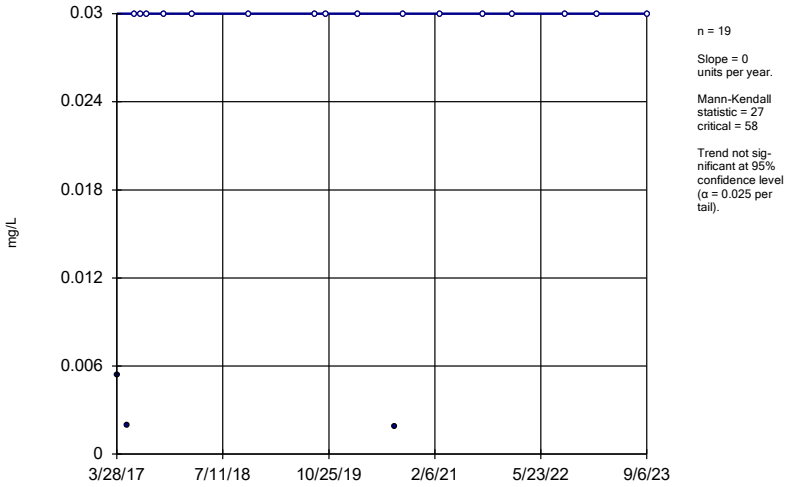
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 27
critical = 58

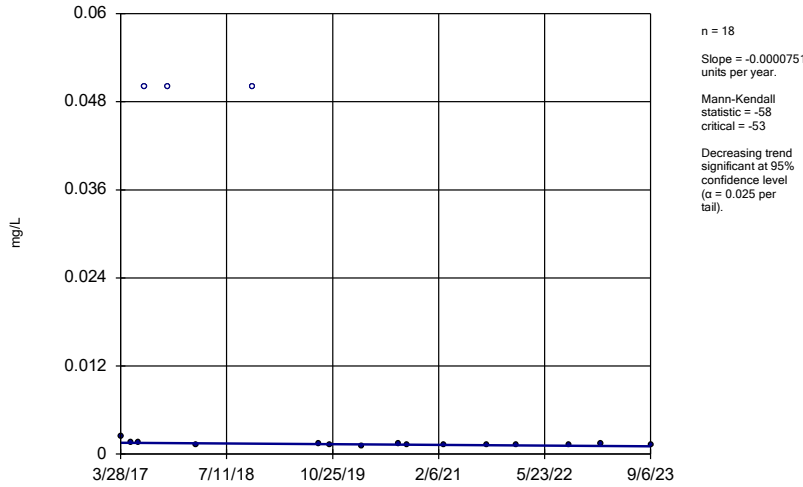
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 18

Slope = -0.0000751 units per year.

Mann-Kendall statistic = -58
critical = -53

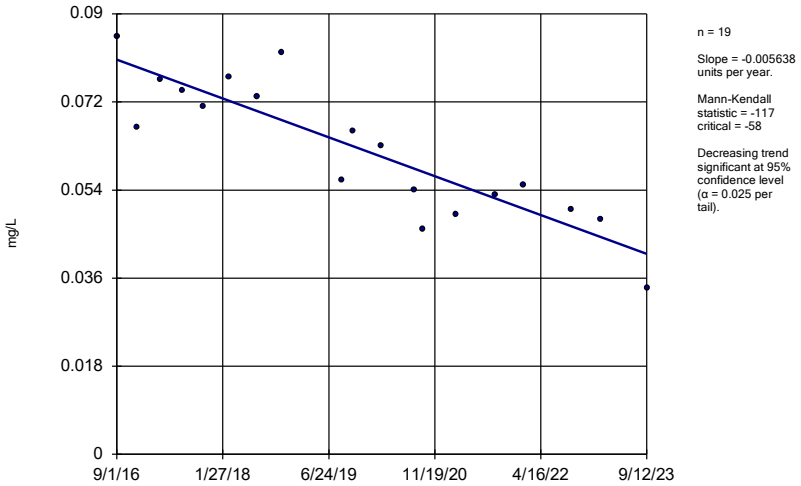
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWC-47



n = 19

Slope = -0.005638 units per year.

Mann-Kendall statistic = -117
critical = -58

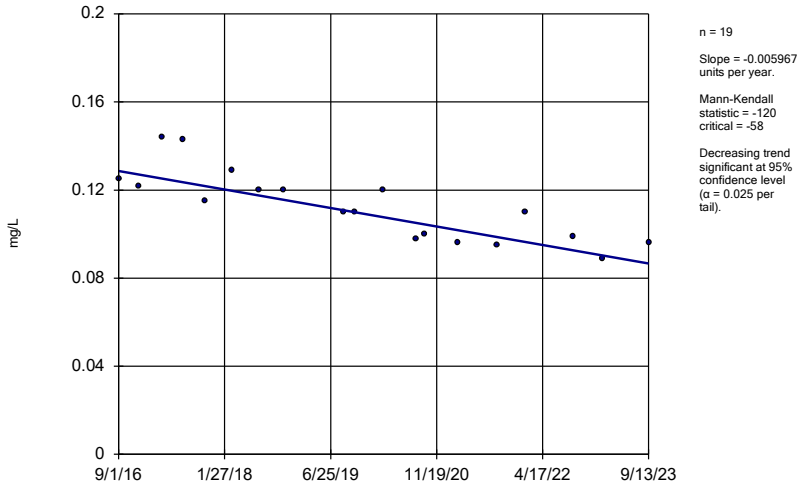
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.15 Software licensed to . UG

Sen's Slope Estimator

DGWC-48



n = 19

Slope = -0.005967 units per year.

Mann-Kendall statistic = -120
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 1/16/2024 2:36 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX E

Statistical Analyses January-February 2024

GROUNDWATER STATS CONSULTING

July 31, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant McDonough Ash Pond (AP-2,3,4)
January/February 2024 Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2024 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-111D, B-120D, B-122D, and B-125D

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, and B-111D
- **2021** – B-120D
- **2022** – B-122D
- **2023** – B-125D

Downgradient well DGWC-9 was dry during the January/February 2024 event and was not sampled; therefore, this well is included on time series and box plots, but is not analyzed with prediction limits. Upgradient well DGWA-70A was not sampled during this event due to restricted access, but the historical data from this upgradient well provides context for the groundwater quality upgradient of the facility. Therefore, this well is plotted on time series and box plots and is used in constructing statistical limits. Note that well B-109D was classified as an assessment well previously but has been redesignated as a piezometer. Per request of Georgia Power Company, both Appendix III and Appendix IV constituents among downgradient wells will be evaluated using interwell prediction limits and confidence intervals, respectively, when a minimum of 8 samples are available.

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 for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after 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 may 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 significant 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 2024

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2024 (Figure D). Background (upgradient) well data were reassessed 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 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When 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, and DGWC-17
- Calcium: DGWC-4, DGWC-5, DGWC-11, DGWC-19, DGWC-21, and DGWC-23
- Chloride: DGWA-71 (upgradient), DGWC-5, and DGWC-20
- pH: 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-10, DGWC-12, DGWC-13, DGWC-19, DGWC-20, and DGWC-48
- Calcium: DGWA-53 (upgradient) and DGWC-48
- Chloride: DGWA-53 (upgradient), DGWC-4, DGWC-19, DGWC-21, DGWC-22, DGWC-23, and DGWC-42
- Fluoride: DGWC-47 and DGWC-48
- pH: DGWC-20, DGWC-42, and DGWC-47
- Sulfate: DGWA-71 (upgradient), DGWC-2, DGWC-8, DGWC-12, DGWC-13, DGWC-15, DGWC-42, DGWC-47, and DGWC-48
- TDS: DGWA-53 (upgradient), DGWC-8, DGWC-12, DGWC-22, and DGWC-48

Statistical Analysis of Appendix IV Parameters – January/February 2024

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 additional values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Trend Test Analysis

Earlier concentrations collected during baseline sampling for cobalt at upgradient well DGWA-53 were noted to be elevated compared to present-day groundwater quality conditions for this well. The Sen's Slope/Mann-Kendall trend test was used to determine whether concentrations have statistically significantly decreased at the 95% confidence level (Figure F). A statistically significant decreasing trend was identified; therefore, the earlier concentrations were truncated from the record in order to eliminate the significant trend (USEPA Unified Guidance, 2009, Chapter 5). The resulting statistical limit is representative of present-day groundwater quality conditions and is more conservative (i.e., lower) from a regulatory perspective. A list of the date ranges used for cobalt at upgradient well DGWA-53 follows this report.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through January/February 2024 for Appendix IV constituents (Figure G). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title

- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure H).

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 I). Note that confidence intervals require a minimum of 4 samples for assessment wells, and in some cases, the assessment wells had insufficient samples at this time.

The Sanitas software was used to calculate 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.

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 and DGWC-20
- 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-122D
- 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 at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure J). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. All available data for upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing
- Arsenic: DGWC-20
- Cobalt: DGWA-71 (upgradient), DGWC-9, DGWC-20, and B-56

Decreasing
- Beryllium: DGWA-70A (upgradient), DGWC-47, and DGWC-48
- Cobalt: DGWA-53 (upgradient), DGWC-8, DGWC-10, DGWC-47, DGWC-48, and B-93
- Combined Radium 226 + 228: DGWA-53 (upgradient)
- Lithium: DGWC-47, DGWC-48, and B-120D

Note that while the trend test identified a statistically significant increasing trend for cobalt in upgradient well DGWA-71, the slope is displayed as zero which represents the median slopes of all the possible pairwise slopes. The zero median slope results from the large number of non-detects in the record, and the positive test statistic results from a few recorded trace values in the earlier part of the record.

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,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

Date Ranges

Date: 4/3/2024 4:04 PM

Plant McDonough Client: Southern Company Data: McDonough AP

Cobalt (mg/L)

DGWA-53 overall:7/12/2018-1/30/2024

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/3/2024 4:31 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Antimony (mg/L)
B-107D, B-108D, B-66, B-82, B-83, B-88, B-92, B-97, DGWC-11, DGWC-13, DGWC-22, DGWC-42, DGWC-9, B-125D

Arsenic (mg/L)
B-100, B-102D, B-106D, B-107D, B-122D, B-66, B-88, B-98, DGWC-11, DGWC-13, DGWC-21, DGWC-23, B-125D

Beryllium (mg/L)
B-111D, B-66, DGWC-14, DGWC-2

Cadmium (mg/L)
B-104D, B-107D, B-111D, B-122D, B-62, B-77, DGWC-14, B-125D

Chromium (mg/L)
B-102D, B-107D, B-108D, B-111D, B-120D, B-122D, B-66, B-92, B-97, DGWC-14, B-125D

Cobalt (mg/L)
DGWC-14

Lead (mg/L)
B-106D, B-122D, B-62, B-66, B-92, B-97, B-98, DGWC-22

Mercury (mg/L)
B-102D, B-106D, B-120D, B-122D, B-62, B-63, B-77, B-83, B-97, B-98, DGWC-47, B-125D

Molybdenum (mg/L)
B-106D, B-107D, B-56, B-62, B-63, B-77, 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-42, DGWC-47, DGWC-48, DGWC-5, DGWC-8, DGWC-9

Selenium (mg/L)
B-102D, B-106D, B-107D, B-122D, B-62, B-63, B-66, DGWC-11, DGWC-21, DGWC-23, DGWC-42, B-125D

Thallium (mg/L)
B-100, B-101D, B-102D, B-106D, B-107D, B-108D, B-111D, B-120D, B-122D, B-62, B-63, B-77, B-93, B-97, B-98, DGWC-11, DGWC-13, DGWC-15, DGWC-2, DGWC-21, DGWC-23, B-125D

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	2/2/2024	0.17	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	2/1/2024	1.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	2/2/2024	0.41	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	1/31/2024	0.63	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	2/5/2024	1.6	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	2/6/2024	0.93	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	2/1/2024	2.4	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	2/1/2024	0.37	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	2/1/2024	2.7	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	1/31/2024	6.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	1/31/2024	4.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	1/31/2024	5.3	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	2/1/2024	4.3	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	1/30/2024	1.1	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	2/5/2024	0.46	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	2/1/2024	2.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	2/1/2024	0.69	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40.3	n/a	2/2/2024	79.3	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40.3	n/a	2/1/2024	55.1	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40.3	n/a	2/1/2024	113	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40.3	n/a	2/1/2024	112	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40.3	n/a	1/31/2024	85.3	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40.3	n/a	1/31/2024	57.1	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40.3	n/a	1/31/2024	95.7	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40.3	n/a	2/1/2024	268	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40.3	n/a	2/5/2024	61.7	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40.3	n/a	2/1/2024	146	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	8.2	n/a	2/2/2024	9.2	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-11	8.2	n/a	2/1/2024	11.1	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-13	8.2	n/a	1/31/2024	11.1	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-15	8.2	n/a	2/5/2024	20.4	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-17	8.2	n/a	2/6/2024	18	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-19	8.2	n/a	2/1/2024	14.2	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-20	8.2	n/a	2/1/2024	27.2	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-21	8.2	n/a	1/31/2024	17.8	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-22	8.2	n/a	1/31/2024	16	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-23	8.2	n/a	1/31/2024	12.5	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-4	8.2	n/a	2/1/2024	8.7	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-42	8.2	n/a	1/30/2024	18.1	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-5	8.2	n/a	2/1/2024	11.6	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-8	8.2	n/a	2/1/2024	10.5	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	2/2/2024	1.2	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	2/1/2024	1.4	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	2/5/2024	0.53	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	2/5/2024	0.43	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	2/2/2024	4.72	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	2/6/2024	5.07	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	2/1/2024	4.98	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	2/1/2024	4.49	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	1/30/2024	5.18	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	2/5/2024	4.11	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	2/5/2024	4.33	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	2/1/2024	4.78	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	2/1/2024	5.21	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-10	49	n/a	2/2/2024	336	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-11	49	n/a	2/1/2024	260	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-12	49	n/a	2/2/2024	134	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-13	49	n/a	1/31/2024	100	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-15	49	n/a	2/5/2024	124	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-17	49	n/a	2/6/2024	261	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-19	49	n/a	2/1/2024	394	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-2	49	n/a	2/1/2024	97.6	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-20	49	n/a	2/1/2024	628	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-21	49	n/a	1/31/2024	267	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-22	49	n/a	1/31/2024	224	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-23	49	n/a	1/31/2024	279	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-4	49	n/a	2/1/2024	824	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-42	49	n/a	1/30/2024	294	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-47	49	n/a	2/5/2024	118	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-48	49	n/a	2/5/2024	258	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-5	49	n/a	2/1/2024	539	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-8	49	n/a	2/1/2024	138	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	254.9	n/a	2/2/2024	548	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	254.9	n/a	2/1/2024	463	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	254.9	n/a	2/2/2024	274	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	254.9	n/a	2/5/2024	288	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	254.9	n/a	2/6/2024	477	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	254.9	n/a	2/1/2024	656	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	254.9	n/a	2/1/2024	1050	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	254.9	n/a	1/31/2024	503	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	254.9	n/a	1/31/2024	423	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	254.9	n/a	1/31/2024	564	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	254.9	n/a	2/1/2024	1450	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	254.9	n/a	1/30/2024	551	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	254.9	n/a	2/5/2024	496	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	254.9	n/a	2/1/2024	948	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	254.9	n/a	2/1/2024	272	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**DGWC-10**	**0.13**	**n/a**	**2/2/2024**	**0.17**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-11**	**0.13**	**n/a**	**2/1/2024**	**1.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-12**	**0.13**	**n/a**	**2/2/2024**	**0.41**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-13**	**0.13**	**n/a**	**1/31/2024**	**0.63**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-14	0.13	n/a	2/5/2024	0.13	No	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-15**	**0.13**	**n/a**	**2/5/2024**	**1.6**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-17**	**0.13**	**n/a**	**2/6/2024**	**0.93**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-19**	**0.13**	**n/a**	**2/1/2024**	**2.4**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-2**	**0.13**	**n/a**	**2/1/2024**	**0.37**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-20**	**0.13**	**n/a**	**2/1/2024**	**2.7**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-21**	**0.13**	**n/a**	**1/31/2024**	**6.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-22**	**0.13**	**n/a**	**1/31/2024**	**4.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-23**	**0.13**	**n/a**	**1/31/2024**	**5.3**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-4**	**0.13**	**n/a**	**2/1/2024**	**4.3**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-42**	**0.13**	**n/a**	**1/30/2024**	**1.1**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-47	0.13	n/a	2/5/2024	0.13	No	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-48**	**0.13**	**n/a**	**2/5/2024**	**0.46**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-5**	**0.13**	**n/a**	**2/1/2024**	**2.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-8**	**0.13**	**n/a**	**2/1/2024**	**0.69**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-10**	**40.3**	**n/a**	**2/2/2024**	**79.3**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-11**	**40.3**	**n/a**	**2/1/2024**	**55.1**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-12	40.3	n/a	2/2/2024	31.7	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40.3	n/a	1/31/2024	30.8	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40.3	n/a	2/5/2024	12.7	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40.3	n/a	2/5/2024	32.8	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40.3	n/a	2/6/2024	19.7	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-19**	**40.3**	**n/a**	**2/1/2024**	**113**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-2	40.3	n/a	2/1/2024	33.3	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-20**	**40.3**	**n/a**	**2/1/2024**	**112**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-21**	**40.3**	**n/a**	**1/31/2024**	**85.3**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-22**	**40.3**	**n/a**	**1/31/2024**	**57.1**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-23**	**40.3**	**n/a**	**1/31/2024**	**95.7**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-4**	**40.3**	**n/a**	**2/1/2024**	**268**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-42	40.3	n/a	1/30/2024	29.9	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40.3	n/a	2/5/2024	23.9	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-48**	**40.3**	**n/a**	**2/5/2024**	**61.7**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-5**	**40.3**	**n/a**	**2/1/2024**	**146**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-8	40.3	n/a	2/1/2024	30.6	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-10**	**8.2**	**n/a**	**2/2/2024**	**9.2**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-11**	**8.2**	**n/a**	**2/1/2024**	**11.1**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-12	8.2	n/a	2/2/2024	6.9	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-13**	**8.2**	**n/a**	**1/31/2024**	**11.1**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-14	8.2	n/a	2/5/2024	3.7	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-15**	**8.2**	**n/a**	**2/5/2024**	**20.4**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-17**	**8.2**	**n/a**	**2/6/2024**	**18**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-19**	**8.2**	**n/a**	**2/1/2024**	**14.2**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-2	8.2	n/a	2/1/2024	1.9	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-20**	**8.2**	**n/a**	**2/1/2024**	**27.2**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-21**	**8.2**	**n/a**	**1/31/2024**	**17.8**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-22**	**8.2**	**n/a**	**1/31/2024**	**16**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-23**	**8.2**	**n/a**	**1/31/2024**	**12.5**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-4**	**8.2**	**n/a**	**2/1/2024**	**8.7**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-42**	**8.2**	**n/a**	**1/30/2024**	**18.1**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-47	8.2	n/a	2/5/2024	2.2	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-48	8.2	n/a	2/5/2024	6.1	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-5**	**8.2**	**n/a**	**2/1/2024**	**11.6**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-8**	**8.2**	**n/a**	**2/1/2024**	**10.5**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-10**	**0.42**	**n/a**	**2/2/2024**	**1.2**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-11	0.42	n/a	2/1/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	2/2/2024	0.12	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	1/31/2024	0.079J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	2/5/2024	0.054J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	2/5/2024	0.065J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	2/6/2024	0.1	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	2/1/2024	0.19	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	2/1/2024	0.067J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-20**	**0.42**	**n/a**	**2/1/2024**	**1.4**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-21	0.42	n/a	1/31/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-22	0.42	n/a	1/31/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	1/31/2024	0.074J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	2/1/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	1/30/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-47**	**0.42**	**n/a**	**2/5/2024**	**0.53**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-48**	**0.42**	**n/a**	**2/5/2024**	**0.43**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-5	0.42	n/a	2/1/2024	0.12	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	2/1/2024	0.064J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-10**	**6.69**	**5.43**	**2/2/2024**	**4.72**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-11	6.69	5.43	2/1/2024	5.49	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	2/2/2024	6.06	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	1/31/2024	5.74	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	2/5/2024	5.69	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	2/5/2024	5.86	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-17**	**6.69**	**5.43**	**2/6/2024**	**5.07**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.69**	**5.43**	**2/1/2024**	**4.98**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-2	6.69	5.43	2/1/2024	6.02	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-20**	**6.69**	**5.43**	**2/1/2024**	**4.49**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-21	6.69	5.43	1/31/2024	5.67	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	1/31/2024	5.71	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	1/31/2024	5.95	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	2/1/2024	5.67	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-42**	**6.69**	**5.43**	**1/30/2024**	**5.18**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.69**	**5.43**	**2/5/2024**	**4.11**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.69**	**5.43**	**2/5/2024**	**4.33**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.69**	**5.43**	**2/1/2024**	**4.78**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-8**	**6.69**	**5.43**	**2/1/2024**	**5.21**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-10**	**49**	**n/a**	**2/2/2024**	**336**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-11**	**49**	**n/a**	**2/1/2024**	**260**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-12**	**49**	**n/a**	**2/2/2024**	**134**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-13**	**49**	**n/a**	**1/31/2024**	**100**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	DGWC-14	49	n/a	2/5/2024	44	No	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**DGWC-15**	**49**	**n/a**	**2/5/2024**	**124**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-17**	**49**	**n/a**	**2/6/2024**	**261**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-19**	**49**	**n/a**	**2/1/2024**	**394**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-2**	**49**	**n/a**	**2/1/2024**	**97.6**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-20**	**49**	**n/a**	**2/1/2024**	**628**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-21**	**49**	**n/a**	**1/31/2024**	**267**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-22**	**49**	**n/a**	**1/31/2024**	**224**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-23**	**49**	**n/a**	**1/31/2024**	**279**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-4**	**49**	**n/a**	**2/1/2024**	**824**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-42**	**49**	**n/a**	**1/30/2024**	**294**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-47**	**49**	**n/a**	**2/5/2024**	**118**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-48**	**49**	**n/a**	**2/5/2024**	**258**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-5**	**49**	**n/a**	**2/1/2024**	**539**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-8**	**49**	**n/a**	**2/1/2024**	**138**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**254.9**	**n/a**	**2/2/2024**	**548**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**254.9**	**n/a**	**2/1/2024**	**463**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**254.9**	**n/a**	**2/2/2024**	**274**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	254.9	n/a	1/31/2024	216	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	254.9	n/a	2/5/2024	127	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**254.9**	**n/a**	**2/5/2024**	**288**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**254.9**	**n/a**	**2/6/2024**	**477**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**254.9**	**n/a**	**2/1/2024**	**656**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	254.9	n/a	2/1/2024	220	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**254.9**	**n/a**	**2/1/2024**	**1050**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**254.9**	**n/a**	**1/31/2024**	**503**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**254.9**	**n/a**	**1/31/2024**	**423**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**254.9**	**n/a**	**1/31/2024**	**564**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**254.9**	**n/a**	**2/1/2024**	**1450**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**254.9**	**n/a**	**1/30/2024**	**551**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	254.9	n/a	2/5/2024	253	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**254.9**	**n/a**	**2/5/2024**	**496**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**254.9**	**n/a**	**2/1/2024**	**948**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-8**	**254.9**	**n/a**	**2/1/2024**	**272**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**

Appendix III - Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWC-10	-0.5325	-127	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.0857	118	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.251	-143	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.04354	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.03571	95	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.1367	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.1638	-164	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.6076	-133	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.1875	83	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.05843	-132	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.2933	-138	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-3.309	-123	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	2.526	71	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.386	150	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	1.937	107	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	3.525	110	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	11.01	75	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-6.099	-145	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	8.033	111	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.1368	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0.6551	91	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.946	-149	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	1.83	136	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-0.867	-134	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.021	-144	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7636	-133	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.158	-165	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.465	-141	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.2584	69	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.1076	-112	-87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.1219	-123	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.03123	103	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.03495	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.0308	-90	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.133	-97	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-0.5658	-103	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-37.31	-110	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-10.68	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-7.813	-131	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	20.1	122	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-32.72	-159	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-11.61	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-34.86	-134	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-42.51	-146	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-56.68	-134	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-18.25	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	19.93	93	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-49.92	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	11.35	85	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	35.09	124	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.577	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	54.23	92	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-50.3	-148	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	48.99	127	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-62.38	-135	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.003408	-71	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-70A (bg)	0	18	74	No	19	47.37	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	0.0007741	34	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-10**	**-0.5325**	**-127**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-11**	**0.0857**	**118**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-12**	**-1.251**	**-143**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-13**	**-0.04354**	**-73**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-15	0	8	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-17**	**0.03571**	**95**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-19**	**-0.1367**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-2**	**-0.1638**	**-164**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-20**	**-0.6076**	**-133**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-21	0.1866	45	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.0435	23	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.07961	44	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-4**	**0.1875**	**83**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-42	0.005145	13	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-48**	**-0.05843**	**-132**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-5	-0.3018	-56	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-8**	**-0.2933**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWA-53 (bg)**	**-3.309**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWA-70A (bg)	0.05458	18	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.2452	-41	-74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-1.637	-49	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-11**	**2.526**	**71**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-19**	**6.386**	**150**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-20	0.3674	7	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-21**	**1.937**	**107**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-22	-0.4355	-22	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-23**	**3.525**	**110**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-4**	**11.01**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-48**	**-6.099**	**-145**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-5**	**8.033**	**111**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWA-53 (bg)**	**-0.1368**	**-123**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWA-70A (bg)	-0.02694	-40	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWA-71 (bg)**	**0.6551**	**91**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-10	-0.2866	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	0.0189	16	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4208	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.1841	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWC-19**	**-3.946**	**-149**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-20**	**1.83**	**136**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-21**	**-0.867**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-22**	**-2.021**	**-144**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-23**	**-0.7636**	**-133**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-4**	**-3.158**	**-165**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-42**	**-2.465**	**-141**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-5**	**0.2584**	**69**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-8	-0.1337	-41	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	-0.004305	-32	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0	54	81	No	20	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	19	92	No	22	77.27	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	-0.03229	-30	-87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.08716	67	87	No	21	4.762	n/a	n/a	0.01	NP
Fluoride (mg/L)	**DGWC-47**	**-0.1076**	**-112**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**DGWC-48**	**-0.1219**	**-123**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWA-53 (bg)	0.02221	32	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02199	-46	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.004314	12	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	-0.0137	-27	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	-4	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-19**	**0.03123**	**103**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-20**	**-0.03495**	**-97**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-42**	**-0.0308**	**-90**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-47**	**-0.133**	**-97**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.02727	-58	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.05168	75	87	No	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (SU)	DGWC-8	-0.005291	-13	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-0.2974	-16	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	0	-23	-74	No	19	47.37	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWA-71 (bg)**	**-0.5658**	**-103**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-10	-20.19	-62	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	9.25	61	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-12**	**-37.31**	**-110**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-13**	**-10.68**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-15**	**-7.813**	**-131**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-17	2.475	33	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-19**	**20.1**	**122**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-2**	**-32.72**	**-159**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-20	-27.12	-69	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-3.629	-71	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	-7.585	-48	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	4.103	53	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	18.73	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-42**	**-11.61**	**-99**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-47**	**-34.86**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-48**	**-42.51**	**-146**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-5	12.32	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-8**	**-56.68**	**-134**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-18.25**	**-118**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-1.554	-46	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-23.07	-63	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**19.93**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-49.92**	**-118**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-2.951	-38	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**11.35**	**85**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**35.09**	**124**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-44.39	-59	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	2.684	23	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**-6.577**	**-88**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	13.25	70	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**54.23**	**92**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.65	-58	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-50.3**	**-148**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**48.99**	**127**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-8**	**-62.38**	**-135**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Test Summary - Cobalt DGWA-53

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/2/2024, 1:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003272**	**-118**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**

Upper Tolerance Limits Summary Table

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:29 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0045	n/a	n/a	n/a	n/a	60	83.33	n/a	0.04607	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	60	76.67	n/a	0.04607	NP Inter(NDs)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	60	0	n/a	0.04607	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	60	53.33	n/a	0.04607	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	60	93.33	n/a	0.04607	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	59	71.19	n/a	0.04849	NP Inter(NDs)
Cobalt (mg/L)	0.024	n/a	n/a	n/a	n/a	54	50	n/a	0.06267	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.743	n/a	n/a	n/a	n/a	60	0	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	64	48.44	n/a	0.03752	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	60	85	n/a	0.04607	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	60	36.67	n/a	0.04607	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	60	83.33	n/a	0.04607	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	60	65	n/a	0.04607	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	60	100	n/a	0.04607	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	60	95	n/a	0.04607	NP Inter(NDs)

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0045	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	0.024	0.024
Combined Radium, Total (pCi/L)	5		4.74	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 Summary Table - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**DGWC-20**	**0.01883**	**0.01009**	**0.01**	**Yes**	**20**	**0.007688**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**DGWC-9**	**0.02771**	**0.01603**	**0.01**	**Yes**	**18**	**0.009656**	**5.556**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-92**	**0.01962**	**0.01388**	**0.004**	**Yes**	**8**	**0.002712**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01676**	**0.01288**	**0.004**	**Yes**	**10**	**0.003017**	**0**	**None**	**x^3**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-10**	**0.008631**	**0.006064**	**0.004**	**Yes**	**19**	**0.002192**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-47**	**0.01186**	**0.00887**	**0.004**	**Yes**	**20**	**0.002633**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008697**	**0.007093**	**0.004**	**Yes**	**20**	**0.001413**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.00868**	**0.006772**	**0.004**	**Yes**	**19**	**0.001629**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-9**	**0.005746**	**0.004909**	**0.004**	**Yes**	**18**	**0.0006918**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-104D**	**0.1871**	**0.1248**	**0.024**	**Yes**	**9**	**0.03504**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	**B-56**	**0.06077**	**0.04367**	**0.024**	**Yes**	**9**	**0.008857**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-63**	**0.04873**	**0.03417**	**0.024**	**Yes**	**10**	**0.00816**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-92**	**0.08566**	**0.04134**	**0.024**	**Yes**	**6**	**0.01613**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06723**	**0.05084**	**0.024**	**Yes**	**10**	**0.0123**	**0**	**None**	**x^3**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.076**	**0.024**	**Yes**	**19**	**0.05251**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**DGWC-19**	**0.05352**	**0.0502**	**0.024**	**Yes**	**20**	**0.002929**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-20**	**0.8207**	**0.5232**	**0.024**	**Yes**	**20**	**0.2869**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-47**	**0.3468**	**0.2343**	**0.024**	**Yes**	**20**	**0.09913**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4713**	**0.3647**	**0.024**	**Yes**	**20**	**0.09394**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-8**	**0.07235**	**0.02797**	**0.024**	**Yes**	**19**	**0.0379**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.2082**	**0.1546**	**0.024**	**Yes**	**18**	**0.04426**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**16.06**	**10.87**	**5**	**Yes**	**9**	**2.689**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	**B-122D**	**14.9**	**7.94**	**5**	**Yes**	**4**	**3.855**	**0**	**None**	**No**	**0.0625**	**NP (normality)**
Lithium (mg/L)	**B-120D**	**0.0876**	**0.05211**	**0.04**	**Yes**	**7**	**0.01494**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-47**	**0.06936**	**0.05327**	**0.04**	**Yes**	**20**	**0.01417**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1208**	**0.1016**	**0.04**	**Yes**	**20**	**0.01689**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	9	0.000669	77.78	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-101D	0.001457	0.0004504	0.006	No	8	0.00115	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.001	0.006	No	9	0.0007645	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00048	0.006	No	9	0.001188	55.56	Kaplan-Meier	No	0.002	NP (NDs)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	8	0.000891	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	9	0.0008743	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	7	0.001024	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-122D	0.003	0.0006	0.006	No	4	0.0012	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	9	0.0006333	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	12	0.0007332	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	9	0.00078	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00043	0.006	No	11	0.001182	72.73	None	No	0.006	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	9	0.0008686	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	6	0.0008165	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	19	0.0002065	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	21	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	20	0.0006004	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	20	0.000763	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	20	0.0005702	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.0013	0.006	No	20	0.0006851	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	20	0.0005367	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-20	0.003	0.0018	0.006	No	20	0.0002683	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	20	0.0003801	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	20	0.0005143	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0028	0.006	No	19	0.0008885	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	20	0.0004025	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	20	0.0006294	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	19	0.0008364	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	19	0.0005827	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	8	0.001167	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.00093	0.01	No	9	0.001613	55.56	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-108D	0.008	0.005	0.01	No	8	0.001061	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	9	0.001281	66.67	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	7	0.001285	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-56	0.004691	0.002975	0.01	No	9	0.0008888	11.11	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	12	0.0004907	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	9	0.0009333	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	11	0.001475	45.45	None	No	0.006	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.004	0.01	No	11	0.0006467	81.82	None	No	0.006	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.005	0.01	No	10	0.001138	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-92	0.002416	0.001185	0.01	No	6	0.001712	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.005	0.0013	0.01	No	9	0.001536	55.56	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	6	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00646	0.003645	0.01	No	19	0.002403	5.263	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	21	0.001319	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	20	0.001031	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	20	0.001527	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0012	0.01	No	20	0.001942	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001809	0.000967	0.01	No	20	0.001725	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	20	0.001156	85	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-20**	**0.01883**	**0.01009**	**0.01**	**Yes**	**20**	**0.007688**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	20	0.0008944	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	19	0.001794	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	20	0.001264	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002512	0.001372	0.01	No	20	0.001624	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0015	0.01	No	20	0.001897	65	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.006957	0.002545	0.01	No	19	0.008745	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0015	0.01	No	19	0.001672	73.68	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-9**	**0.02771**	**0.01603**	**0.01**	**Yes**	**18**	**0.009656**	**5.556**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.098	0.015	2	No	9	0.02594	0	None	No	0.002	NP (normality)
Barium (mg/L)	B-101D	0.07711	0.05664	2	No	8	0.009658	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.0225	0.01905	2	No	9	0.001787	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02377	0.01845	2	No	9	0.002759	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02277	0.02023	2	No	8	0.001195	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1145	0.0407	2	No	8	0.03483	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06208	0.04942	2	No	8	0.00597	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.03764	0.02572	2	No	9	0.006364	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-120D	0.03824	0.01833	2	No	7	0.008381	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-122D	0.05717	0.03033	2	No	4	0.005909	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.02919	0.02615	2	No	9	0.001581	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-62	0.0245	0.01817	2	No	12	0.00403	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.062	0.02	2	No	9	0.01566	0	None	No	0.002	NP (normality)
Barium (mg/L)	B-66	0.02453	0.0168	2	No	9	0.004	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1208	0.09832	2	No	11	0.01347	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02776	0.02164	2	No	10	0.003433	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.034	0.024	2	No	10	0.009487	0	None	No	0.011	NP (normality)
Barium (mg/L)	B-88	0.02082	0.01563	2	No	9	0.002728	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-92	0.01807	0.01326	2	No	6	0.001751	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01855	0.01456	2	No	9	0.002068	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.022	0.02	2	No	6	0.0008367	0	None	No	0.0155	NP (normality)
Barium (mg/L)	B-98	0.09008	0.02625	2	No	6	0.02323	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.0275	0.02152	2	No	19	0.005099	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06268	0.04936	2	No	19	0.01137	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03872	0.02675	2	No	21	0.01151	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03148	0.02561	2	No	19	0.006668	5.263	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-14	0.06203	0.05813	2	No	20	0.00343	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04861	0.04206	2	No	20	0.00577	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05139	0.03703	2	No	20	0.01265	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02533	0.02246	2	No	20	0.002527	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02263	0.02127	2	No	20	0.001191	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01589	0.01082	2	No	20	0.004468	5	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	20	0.001558	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03592	0.03073	2	No	20	0.004576	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02347	0.01933	2	No	20	0.003653	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-4	0.03544	0.03252	2	No	19	0.002489	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01913	0.01576	2	No	20	0.003108	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01994	0.01675	2	No	20	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01425	0.01316	2	No	20	0.0009545	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01816	0.01666	2	No	18	0.001233	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03395	0.02416	2	No	19	0.008568	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-9	0.0166	0.01506	2	No	18	0.001275	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005593	0.000354	0.004	No	9	0.0001063	11.11	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.0005	0.000047	0.004	No	8	0.0002016	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-102D	0.001275	0.0008499	0.004	No	9	0.0002199	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001567	0.001233	0.004	No	9	0.0001732	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001299	0.00008255	0.004	No	8	0.00002236	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	8	0.0001591	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	B-108D	0.00058	0.0005	0.004	No	8	0.00002828	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	B-120D	0.00111	0.0007384	0.004	No	7	0.0001565	0	None	No	0.01	Param.
Beryllium (mg/L)	B-122D	0.0006362	0.0001238	0.004	No	4	0.0001128	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.0013	0.0011	0.004	No	9	0.00007071	0	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-62	0.0025	0.00009	0.004	No	13	0.0008937	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-63	0.00053	0.0003	0.004	No	11	0.000343	9.091	None	No	0.006	NP (normality)
Beryllium (mg/L)	B-77	0.0005	0.000057	0.004	No	11	0.0002115	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	B-82	0.0019	0.00138	0.004	No	10	0.0002914	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.00044	0.00028	0.004	No	10	0.0001168	0	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-88	0.002547	0.0008737	0.004	No	9	0.001272	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.01962**	**0.01388**	**0.004**	**Yes**	**8**	**0.002712**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01676**	**0.01288**	**0.004**	**Yes**	**10**	**0.003017**	**0**	**None**	**x^3**	**0.01**	**Param.**
Beryllium (mg/L)	B-97	0.001828	0.001572	0.004	No	9	0.0001323	11.11	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	9	0.0002469	66.67	None	No	0.002	NP (NDs)
Beryllium (mg/L)	**DGWC-10**	**0.008631**	**0.006064**	**0.004**	**Yes**	**19**	**0.002192**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.003	0.00014	0.004	No	19	0.001409	36.84	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	21	0.0006206	19.05	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.0005	0.000073	0.004	No	19	0.0006573	52.63	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	20	0.0005788	90	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00064	0.00052	0.004	No	20	0.0002888	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001947	0.001703	0.004	No	20	0.0002149	10	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005754	0.003146	0.004	No	20	0.002296	10	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	20	0.0004121	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00013	0.004	No	20	0.0004143	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	20	0.0003404	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00039	0.0002	0.004	No	19	0.0004021	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.00264	0.00214	0.004	No	20	0.00044	5	None	No	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01186**	**0.00887**	**0.004**	**Yes**	**20**	**0.002633**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008697**	**0.007093**	**0.004**	**Yes**	**20**	**0.001413**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**DGWC-5**	**0.00868**	**0.006772**	**0.004**	**Yes**	**19**	**0.001629**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002494	0.001336	0.004	No	19	0.001101	5.263	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**DGWC-9**	**0.005746**	**0.004909**	**0.004**	**Yes**	**18**	**0.0006918**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	B-100	0.00059	0.00025	0.005	No	9	0.000136	11.11	None	No	0.002	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	8	0.0001379	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	B-102D	0.000894	0.0006904	0.005	No	9	0.0001054	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0005	0.00012	0.005	No	8	0.0001678	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	B-108D	0.0005	0.00018	0.005	No	8	0.0001131	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	B-120D	0.001151	0.0009485	0.005	No	7	0.00008544	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003422	0.0002533	0.005	No	9	0.00004604	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	9	0.0001655	44.44	None	No	0.002	NP (normality)
Cadmium (mg/L)	B-66	0.0005	0.00018	0.005	No	9	0.0001411	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-82	0.0007565	0.0005015	0.005	No	10	0.0001429	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003527	0.0002693	0.005	No	10	0.00004677	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.004329	0.0008973	0.005	No	9	0.001777	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001543	0.0007773	0.005	No	6	0.0002786	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009094	0.0007483	0.005	No	9	0.00008343	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.0006421	0.0005313	0.005	No	6	0.00004033	0	None	No	0.01	Param.
Cadmium (mg/L)	B-98	0.0003539	0.0001528	0.005	No	6	0.0001465	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001076	0.0007	0.005	No	19	0.0003209	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00015	0.005	No	19	0.0001752	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003215	0.0002189	0.005	No	21	0.0001795	38.1	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	19	0.0001153	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	20	0.0002065	80	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.0003201	0.0002401	0.005	No	20	0.00008248	10	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-19	0.000406	0.00034	0.005	No	20	0.00005814	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00018	0.005	No	20	0.000209	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002539	0.001871	0.005	No	20	0.000588	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.000685	0.000471	0.005	No	20	0.0001885	15	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006186	0.0004754	0.005	No	20	0.000126	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003201	0.0001806	0.005	No	20	0.0001983	15	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-4	0.0008647	0.0006553	0.005	No	19	0.0001787	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0009629	0.0004983	0.005	No	20	0.0004936	10	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.001968	0.001225	0.005	No	20	0.0006538	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.003759	0.002485	0.005	No	20	0.001513	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0009159	0.0005367	0.005	No	19	0.0003239	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002317	0.001638	0.005	No	19	0.0005801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006234	0.0005177	0.005	No	18	0.00008734	11.11	None	No	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	9	0.001874	77.78	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	8	0.001273	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	9	0.0013	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	8	0.001308	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	9	0.001949	66.67	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	12	0.00116	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	9	0.001785	77.78	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.0007	0.1	No	11	0.001994	63.64	None	No	0.006	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0013	0.1	No	10	0.001603	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-83	0.0044	0.00208	0.1	No	10	0.001301	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	9	0.001854	66.67	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	9	0.002077	55.56	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	6	0.001885	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	DGWC-10	0.005	0.0008	0.1	No	19	0.002014	36.84	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	19	0.001844	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	21	0.001214	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	19	0.001792	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	20	0.002073	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0031	0.0025	0.1	No	20	0.0007688	10	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.003	0.0023	0.1	No	20	0.002746	15	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.00064	0.1	No	20	0.002103	70	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002065	0.001513	0.1	No	20	0.002145	30	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.00096	0.1	No	20	0.001988	70	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	20	0.0008497	95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	20	0.002176	50	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	19	0.001032	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.001	0.1	No	20	0.002039	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	20	0.0009615	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	20	0.001371	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	19	0.001044	94.74	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-8	0.005	0.0013	0.1	No	19	0.00185	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.005	0.00061	0.1	No	18	0.002082	55.56	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.06941	0.02304	0.024	No	11	0.02782	9.091	None	No	0.01	Param.
Cobalt (mg/L)	B-101D	0.00339	0.00236	0.024	No	8	0.0004862	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01446	0.01038	0.024	No	9	0.002111	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.1871**	**0.1248**	**0.024**	**Yes**	**9**	**0.03504**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.005	0.00056	0.024	No	8	0.002222	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	B-107D	0.001339	0.0006112	0.024	No	8	0.0003433	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.12	0.00045	0.024	No	8	0.04188	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.024	No	9	0.002344	44.44	None	No	0.002	NP (normality)
Cobalt (mg/L)	B-120D	0.009463	0.001518	0.024	No	7	0.005384	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	B-122D	0.01314	0.003207	0.024	No	4	0.002188	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-56**	**0.06077**	**0.04367**	**0.024**	**Yes**	**9**	**0.008857**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.005	0.00031	0.024	No	13	0.001763	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.04873**	**0.03417**	**0.024**	**Yes**	**10**	**0.00816**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.01648	0.007399	0.024	No	10	0.005089	10	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.005	0.0004	0.024	No	11	0.002	45.45	None	No	0.006	NP (normality)
Cobalt (mg/L)	B-82	0.00485	0.001829	0.024	No	11	0.002138	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01717	0.009666	0.024	No	10	0.004208	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.018	0.0015	0.024	No	10	0.00755	0	None	No	0.011	NP (normality)
Cobalt (mg/L)	**B-92**	**0.08566**	**0.04134**	**0.024**	**Yes**	**6**	**0.01613**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06723**	**0.05084**	**0.024**	**Yes**	**10**	**0.0123**	**0**	**None**	**x^3**	**0.01**	**Param.**
Cobalt (mg/L)	B-97	0.003276	0.002824	0.024	No	6	0.0001643	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.005	0.00063	0.024	No	8	0.001537	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.076**	**0.024**	**Yes**	**19**	**0.05251**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.024	No	19	0.004361	31.58	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01395	0.004776	0.024	No	21	0.009566	9.524	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.024	No	19	0.001713	84.21	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0024	0.0016	0.024	No	20	0.005192	5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02525	0.01844	0.024	No	20	0.005999	5	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.05352**	**0.0502**	**0.024**	**Yes**	**20**	**0.002929**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.01846	0.006234	0.024	No	20	0.01188	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.8207**	**0.5232**	**0.024**	**Yes**	**20**	**0.2869**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009608	0.008439	0.024	No	20	0.001504	10	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009402	0.007368	0.024	No	20	0.001791	10	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00048	0.024	No	20	0.002794	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.002	0.0016	0.024	No	19	0.001041	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.0327	0.01241	0.024	No	20	0.02028	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.3468**	**0.2343**	**0.024**	**Yes**	**20**	**0.09913**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4713**	**0.3647**	**0.024**	**Yes**	**20**	**0.09394**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.02994	0.02014	0.024	No	19	0.01028	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-8**	**0.07235**	**0.02797**	**0.024**	**Yes**	**19**	**0.0379**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.2082**	**0.1546**	**0.024**	**Yes**	**18**	**0.04426**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-100	1.063	0.2516	5	No	9	0.4203	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.064	0.9054	5	No	8	0.5464	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.301	0.4375	5	No	9	0.4474	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**16.06**	**10.87**	**5**	**Yes**	**9**	**2.689**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	0.8275	0.378	5	No	8	0.2121	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.619	0.4689	5	No	8	0.5426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.605	0.8012	5	No	8	0.3791	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	10.17	3.929	5	No	9	3.233	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-120D	3.047	1.211	5	No	7	0.7729	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-122D**	**14.9**	**7.94**	**5**	**Yes**	**4**	**3.855**	**0**	**None**	**No**	**0.0625**	**NP (normality)**
Combined Radium 226 + 228 (pCi/L)	B-56	1.171	0.7946	5	No	9	0.1948	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.011	1.475	5	No	11	0.3213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	1.796	0.8227	5	No	8	0.4592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.024	0.249	5	No	8	0.3656	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	1.738	0.7417	5	No	10	0.5941	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.8561	0.3808	5	No	9	0.2461	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	0.8991	0.2279	5	No	10	0.3762	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.135	0.8615	5	No	9	0.7176	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.26	1.1	5	No	6	0.4226	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.59	0.8486	5	No	9	0.3839	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	1.932	0.8948	5	No	6	0.3775	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.233	0.247	5	No	6	0.7229	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.44	1.109	5	No	20	0.2913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.175	0.664	5	No	20	0.4499	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.226	0.5186	5	No	20	0.6225	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.358	0.922	5	No	20	0.3835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	0.9976	0.6444	5	No	20	0.311	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.311	0.5958	5	No	20	0.7741	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.964	0.5773	5	No	20	0.3405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	0.9511	0.5126	5	No	20	0.386	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.293	0.8181	5	No	20	0.4185	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.519	0.991	5	No	20	0.4648	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	0.9893	0.5604	5	No	20	0.3776	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.212	0.687	5	No	20	0.4622	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.399	0.8606	5	No	20	0.4737	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.621	1.197	5	No	20	0.3733	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.125	0.6886	5	No	20	0.3842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.629	1.701	5	No	20	0.8171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.216	1.454	5	No	20	0.6708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.649	1.012	5	No	20	0.5607	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8397	0.5305	5	No	20	0.2723	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.38	0.9599	5	No	18	0.3469	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.052	4	No	9	0.01949	66.67	None	No	0.002	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	8	0.02587	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-102D	0.1037	0.07257	4	No	9	0.0161	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.424	0.2871	4	No	9	0.07091	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07123	0.04927	4	No	8	0.01036	12.5	None	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	8	0.01662	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	B-108D	0.13	0.061	4	No	8	0.01856	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	B-111D	0.4748	0.3273	4	No	9	0.08388	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	7	0.02331	57.14	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-122D	0.2413	0.1637	4	No	4	0.01708	0	None	No	0.01	Param.
Fluoride (mg/L)	B-56	0.2986	0.152	4	No	9	0.07593	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.23	0.099	4	No	11	0.09675	0	None	No	0.006	NP (normality)
Fluoride (mg/L)	B-63	0.45	0.12	4	No	8	0.1125	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-66	0.3347	0.09165	4	No	8	0.1391	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	B-77	0.1	0.069	4	No	10	0.01462	40	None	No	0.011	NP (normality)
Fluoride (mg/L)	B-82	0.1281	0.06033	4	No	9	0.04038	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	B-83	0.1035	0.06066	4	No	10	0.02487	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.054	4	No	9	0.01533	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Fluoride (mg/L)	B-92	0.2938	0.1762	4	No	6	0.04278	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.4	0.2556	4	No	9	0.0748	0	None	No	0.01	Param.
Fluoride (mg/L)	B-97	0.14	0.085	4	No	6	0.02165	0	None	No	0.0155	NP (normality)
Fluoride (mg/L)	B-98	0.1917	0.0843	4	No	6	0.03909	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.745	1.294	4	No	21	0.408	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	20	0.02423	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.1436	0.06376	4	No	21	0.128	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-13	0.159	0.08001	4	No	20	0.09325	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.059	4	No	21	0.02535	61.9	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.07	4	No	21	0.0404	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.1891	0.0845	4	No	21	0.1427	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.3623	0.1638	4	No	21	0.2859	4.762	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.1	0.06	4	No	21	0.1402	33.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	1.048	0.5368	4	No	21	0.4632	4.762	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No	21	0.05973	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.11	0.068	4	No	21	0.06042	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.1722	0.08528	4	No	21	0.1391	9.524	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.096	4	No	21	0.1552	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	21	0.01912	90.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.001	0.5136	4	No	21	0.4414	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	0.9846	0.5551	4	No	21	0.4261	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.5219	0.1966	4	No	20	0.432	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.2998	0.1051	4	No	20	0.2188	15	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.33	0.9596	4	No	19	0.3161	0	None	No	0.01	Param.
Fluoride (mg/L)	B-125D	0.1501	0.04018	4	No	4	0.02532	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	9	0.0004215	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	8	0.0003306	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	9	0.0004757	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	9	0.0003425	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	8	0.000338	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-108D	0.0025	0.001	0.015	No	8	0.0005303	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	9	0.0004169	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	7	0.0003062	85.71	None	No	0.008	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	9	0.000433	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	9	0.0004146	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	B-77	0.001	0.00029	0.015	No	11	0.0004161	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	B-82	0.001	0.00011	0.015	No	10	0.0004307	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-83	0.001	0.00012	0.015	No	10	0.0004218	60	None	No	0.011	NP (NDs)
Lead (mg/L)	B-88	0.012	0.00035	0.015	No	9	0.003701	33.33	None	No	0.002	NP (normality)
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	9	0.000388	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	DGWC-10	0.005	0.00013	0.015	No	19	0.002326	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00012	0.015	No	19	0.0004077	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	21	0.0002692	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	19	0.0002689	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	20	0.0003392	85	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.001	0.0002	0.015	No	20	0.0004053	70	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00013	0.015	No	20	0.0004344	65	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00026	0.015	No	20	0.0003943	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000094	0.015	No	20	0.0004568	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.01	0.00047	0.015	No	20	0.004549	70	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.0002	0.015	No	20	0.000406	65	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	20	0.0002088	95	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	19	0.0003706	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0003921	0.0001782	0.015	No	20	0.001077	30	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	20	0.0009812	35	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0019	0.00093	0.015	No	20	0.001058	15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	19	0.0006039	52.63	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-8	0.001	0.00023	0.015	No	19	0.0003896	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	18	0.001841	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.03	0.0013	0.04	No	9	0.01227	22.22	None	No	0.002	NP (normality)
Lithium (mg/L)	B-101D	0.01493	0.009274	0.04	No	8	0.002666	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01394	0.01031	0.04	No	9	0.00188	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03953	0.03647	0.04	No	9	0.001581	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005601	0.004799	0.04	No	8	0.000378	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.016	0.013	0.04	No	8	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.016	0.014	0.04	No	8	0.0008864	0	None	No	0.004	NP (normality)
Lithium (mg/L)	B-111D	0.02653	0.0188	0.04	No	9	0.004	0	None	No	0.01	Param.
Lithium (mg/L)	**B-120D**	**0.0876**	**0.05211**	**0.04**	**Yes**	**7**	**0.01494**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-122D	0.014	0.013	0.04	No	4	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	B-56	0.005924	0.005188	0.04	No	9	0.0003812	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0078	0.04	No	12	0.004749	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	B-63	0.0072	0.0052	0.04	No	10	0.006004	10	None	No	0.011	NP (normality)
Lithium (mg/L)	B-66	0.03	0.00073	0.04	No	9	0.009757	88.89	None	No	0.002	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.0011	0.04	No	11	0.01446	45.45	None	No	0.006	NP (normality)
Lithium (mg/L)	B-82	0.03	0.00078	0.04	No	10	0.012	20	None	No	0.011	NP (normality)
Lithium (mg/L)	B-83	0.003149	0.001954	0.04	No	10	0.0007604	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	B-88	0.01085	0.001899	0.04	No	9	0.008531	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01619	0.01031	0.04	No	6	0.002139	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.01	0.04	No	9	0.001118	0	None	No	0.002	NP (normality)
Lithium (mg/L)	B-97	0.005124	0.00421	0.04	No	6	0.0003327	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.03	0.00089	0.04	No	6	0.0118	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	DGWC-10	0.0053	0.0033	0.04	No	19	0.00671	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0027	0.0018	0.04	No	19	0.005249	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	21	0.01342	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.003	0.04	No	19	0.006857	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0035	0.04	No	20	0.005581	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0063	0.0057	0.04	No	19	0.0008467	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	20	0.0136	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No	20	0.004912	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0781	0.022	0.04	No	20	0.02885	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.01077	0.004021	0.04	No	20	0.006435	5	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-21	0.0065	0.0056	0.04	No	20	0.004272	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0044	0.0035	0.04	No	20	0.00474	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.009735	0.003508	0.04	No	20	0.0165	5	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0037	0.0026	0.04	No	19	0.005039	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.0124	0.008914	0.04	No	20	0.003891	5	None	ln(x)	0.01	Param.
Lithium (mg/L)	**DGWC-47**	**0.06936**	**0.05327**	**0.04**	**Yes**	**20**	**0.01417**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1208**	**0.1016**	**0.04**	**Yes**	**20**	**0.01689**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.008	0.0046	0.04	No	19	0.004655	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0066	0.0036	0.04	No	19	0.004786	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02864	0.02485	0.04	No	18	0.003134	5.556	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-125D	0.078	0.028	0.04	No	5	0.02478	0	None	No	0.031	NP (normality)
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	8	0.00003182	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	8	0.00004069	75	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	9	0.00004033	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	8	0.00001414	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	8	0.00002121	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	9	0.00003533	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-56	0.00034	0.00016	0.002	No	9	0.00005622	66.67	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-66	0.00029	0.0002	0.002	No	9	0.00003	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.0002	0.002	No	10	0.00002846	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	9	0.00004197	77.78	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-92	0.0001669	0.0001431	0.002	No	6	0.00002251	33.33	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	B-93	0.0002109	0.0001094	0.002	No	9	0.00005207	33.33	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0021	0.00009	0.002	No	19	0.0004448	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.00048	0.00008	0.002	No	19	0.00008628	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00009	0.002	No	21	0.00005939	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	19	0.00003798	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	20	0.00005031	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	20	0.0000313	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000086	0.002	No	20	0.00005983	55	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	20	0.00005286	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	20	0.000112	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	20	0.00004278	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00012	0.002	No	20	0.00005743	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00014	0.002	No	20	0.00005149	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00015	0.002	No	20	0.00004962	45	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	19	0.0001014	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	20	0.00003578	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	20	0.0000313	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002479	0.0001341	0.002	No	19	0.0001102	10.53	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.00009	0.002	No	19	0.00005805	63.16	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00014	0.002	No	18	0.00008025	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-100	0.19	0.01	0.1	No	9	0.06	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	8	0.002758	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	9	0.002833	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	9	0.004509	66.67	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-108D	0.01	0.00078	0.1	No	8	0.00326	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-111D	0.009773	0.005243	0.1	No	9	0.002535	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	7	0.003443	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-122D	0.01	0.001	0.1	No	4	0.004467	25	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	9	0.003683	77.78	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-82	0.01	0.01	0.1	No	10	0.002906	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	9	0.00388	77.78	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-98	0.01	0.00075	0.1	No	6	0.003651	16.67	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.01978	0.01076	0.1	No	19	0.00937	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	20	0.003801	30	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-22	0.01	0.00097	0.1	No	20	0.002019	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DGWC-23	0.01034	0.007103	0.1	No	20	0.002848	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.00599	0.00421	0.1	No	19	0.00152	5.263	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	9	0.001033	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	8	0.0006718	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0015	0.05	No	9	0.001691	44.44	None	No	0.002	NP (normality)
Selenium (mg/L)	B-108D	0.025	0.0016	0.05	No	8	0.00734	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	9	0.0009333	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-120D	0.005267	0.001705	0.05	No	7	0.001499	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.01895	0.007557	0.05	No	9	0.006981	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.005	0.05	No	11	0.000995	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0018	0.05	No	10	0.001517	40	None	No	0.011	NP (normality)
Selenium (mg/L)	B-83	0.02501	0.01503	0.05	No	10	0.00559	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003349	0.001963	0.05	No	9	0.0007178	11.11	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01688	0.001484	0.05	No	6	0.005605	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.01917	0.00629	0.05	No	9	0.009469	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	B-97	0.003878	0.001788	0.05	No	6	0.0007607	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	6	0.000694	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	DGWC-10	0.04565	0.02217	0.05	No	19	0.02005	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	21	0.002017	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004094	0.002191	0.05	No	19	0.002816	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	20	0.002235	55	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	20	0.001638	90	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008592	0.006434	0.05	No	20	0.002149	10	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.00779	0.00515	0.05	No	20	0.002324	10	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.00421	0.002321	0.05	No	20	0.001918	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-20	0.07406	0.04006	0.05	No	20	0.02993	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	20	0.0007379	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	19	0.0008259	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.009399	0.003679	0.05	No	20	0.00577	10	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.005853	0.002472	0.05	No	20	0.003077	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03151	0.007147	0.05	No	19	0.03791	5.263	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	19	0.001831	63.16	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1083	0.04482	0.05	No	18	0.05719	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-104D	0.001	0.00028	0.002	No	9	0.00024	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-56	0.0003565	0.0001864	0.002	No	9	0.00009662	11.11	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-66	0.001	0.00021	0.002	No	9	0.0002633	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-82	0.001	0.00011	0.002	No	10	0.0003776	80	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.001	0.002	No	10	0.0002935	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	9	0.0002667	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	6	0.0004105	66.67	None	No	0.0155	NP (NDs)
Thallium (mg/L)	DGWC-10	0.005	0.00036	0.002	No	19	0.002067	31.58	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000091	0.002	No	21	0.0004438	61.9	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-14	0.001	0.00056	0.002	No	20	0.00009839	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00018	0.002	No	20	0.0004193	45	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.000554	0.000491	0.002	No	20	0.00005552	5	None	No	0.01	Param.
Thallium (mg/L)	DGWC-20	0.01	0.0006	0.002	No	20	0.00426	35	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	20	0.0004146	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	19	0.0002127	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	20	0.0003913	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	20	0.0002807	15	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	20	0.0004082	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	19	0.0003331	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No	19	0.0003897	36.84	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	18	0.002276	44.44	None	No	0.01	NP (normality)

Appendix IV - Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**DGWC-20**	**0.00159**	**68**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00005492**	**-91**	**-62**	**Yes**	**20**	**40**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-47**	**-0.0008056**	**-102**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.000425**	**-127**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-56**	**0.006465**	**29**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-93**	**-0.005325**	**-24**	**-23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003272**	**-118**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**65**	**62**	**Yes**	**20**	**75**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01854**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-20**	**0.08083**	**97**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03465**	**-137**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03854**	**-169**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01332**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4778**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**B-120D**	**-0.01103**	**-17**	**-15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005385**	**-133**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006076**	**-139**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	14	62	No	20	60	n/a	n/a	0.05	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-28	-62	No	20	85	n/a	n/a	0.05	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	28	62	No	20	85	n/a	n/a	0.05	NP
Arsenic (mg/L)	**DGWC-20**	**0.00159**	**68**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	DGWC-9	-0.0006814	-17	-53	No	18	5.556	n/a	n/a	0.05	NP
Beryllium (mg/L)	B-92	-0.0009986	-13	-17	No	8	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	B-93	0	1	23	No	10	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-15	-62	No	20	95	n/a	n/a	0.05	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00005492**	**-91**	**-62**	**Yes**	**20**	**40**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.000009793	-57	-62	No	20	25	n/a	n/a	0.05	NP
Beryllium (mg/L)	DGWC-10	0.0002633	18	58	No	19	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	**DGWC-47**	**-0.0008056**	**-102**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.000425**	**-127**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWC-5	0.0003077	51	58	No	19	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	DGWC-9	-0.00002099	-6	-53	No	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	B-104D	-0.001583	-3	-20	No	9	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**B-56**	**0.006465**	**29**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	B-63	-0.002984	-12	-23	No	10	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	B-92	-0.001263	-1	-12	No	6	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**B-93**	**-0.005325**	**-24**	**-23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003272**	**-118**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	47	62	No	20	60	n/a	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**65**	**62**	**Yes**	**20**	**75**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01854**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWC-19	0.00006337	11	62	No	20	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**DGWC-20**	**0.08083**	**97**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03465**	**-137**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03854**	**-169**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01332**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	B-104D	-0.354	-5	-20	No	9	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	B-122D	5.641	4	8	No	4	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4778**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.002769	0	62	No	20	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.02077	-15	-62	No	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	**B-120D**	**-0.01103**	**-17**	**-15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	DGWA-53 (bg)	-0.0001024	-35	-62	No	20	5	n/a	n/a	0.05	NP
Lithium (mg/L)	DGWA-70A (bg)	0	28	62	No	20	85	n/a	n/a	0.05	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.00004107	-42	-62	No	20	20	n/a	n/a	0.05	NP
Lithium (mg/L)	**DGWC-47**	**-0.005385**	**-133**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006076**	**-139**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

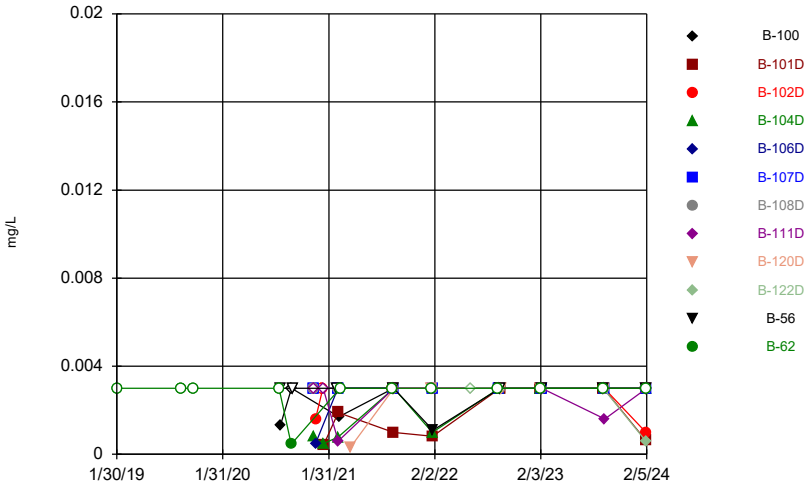
Table of Contents

Figure A. Time Series	36
Figure B. Box Plots	352
Figure C. Outlier Summary	374
Figure D. Appendix III Interwell Prediction Limits	376
Figure E. Appendix III Trend Tests	425
Figure F. Trend Test - Cobalt DGWA-53	456
Figure G. Upper Tolerance Limits	459
Figure H. Groundwater Protection Standards	465
Figure I. Confidence Intervals	467
Figure J. Appendix IV Trend Tests	634

FIGURE A.

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



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Plant McDonough Client: Southern Company Data: McDonough AP

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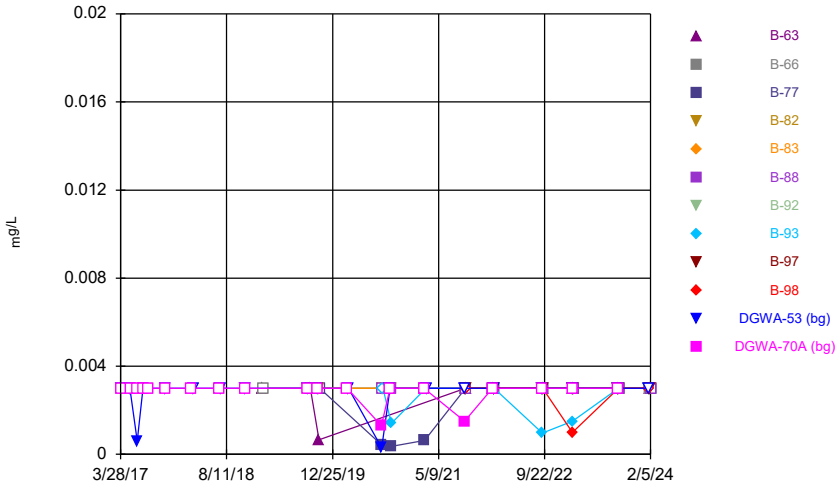

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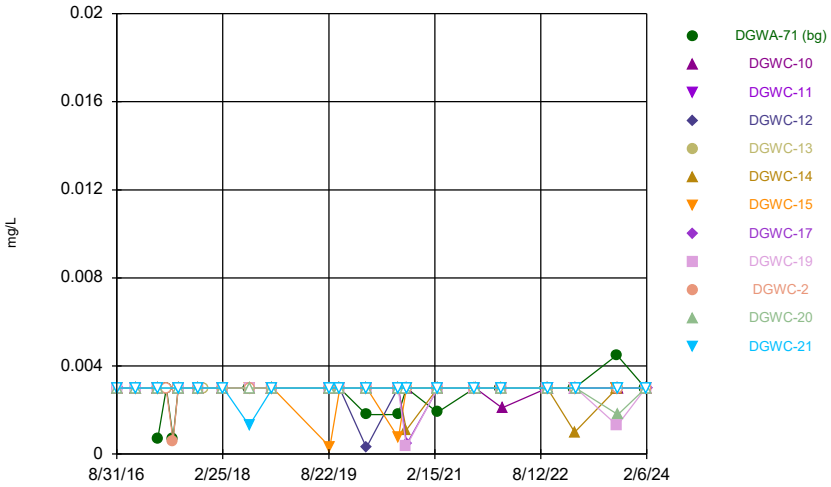

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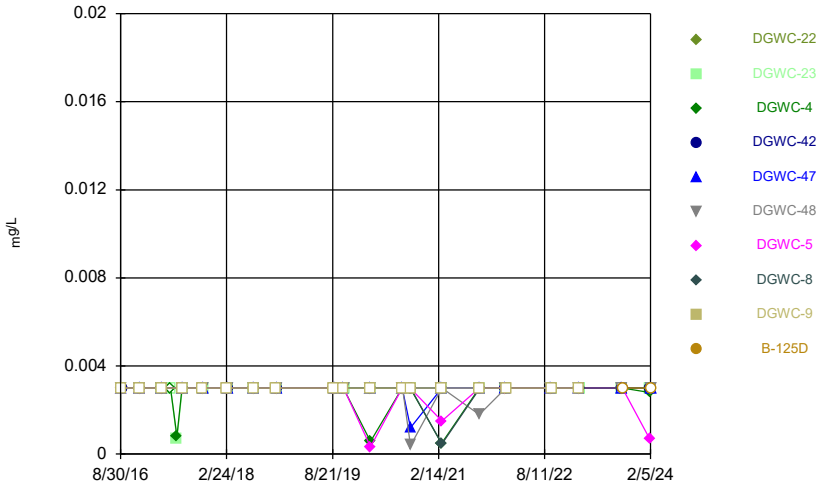

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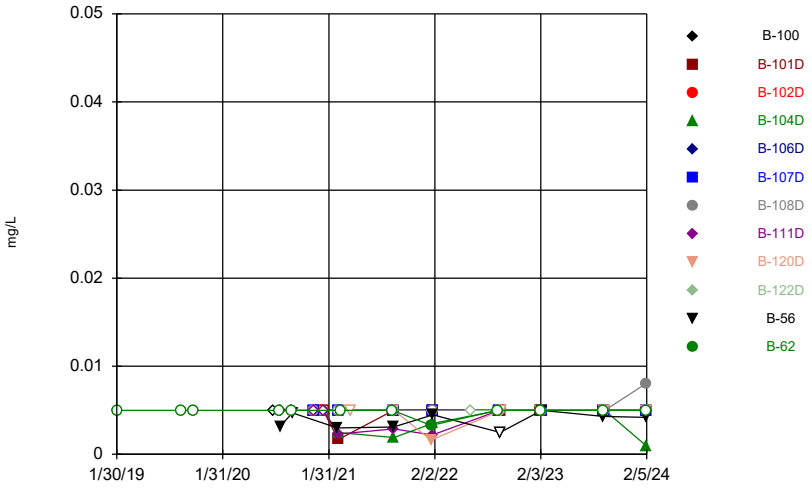

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Hollow symbols indicate censored values.

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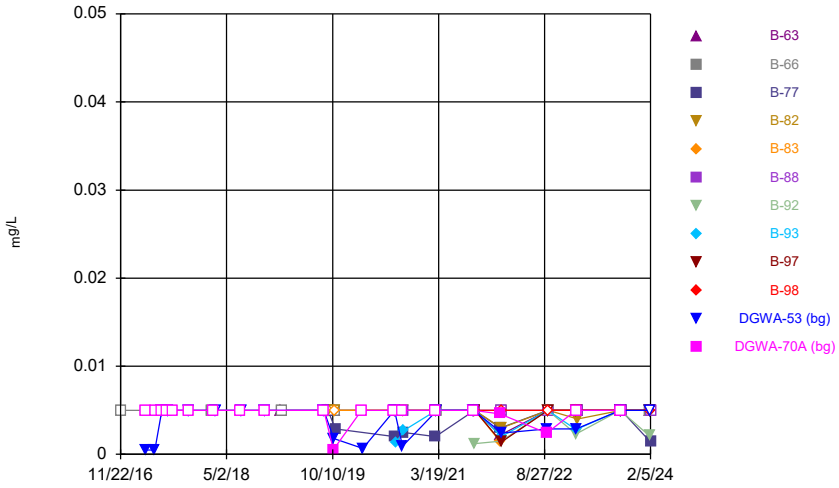

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Hollow symbols indicate censored values.

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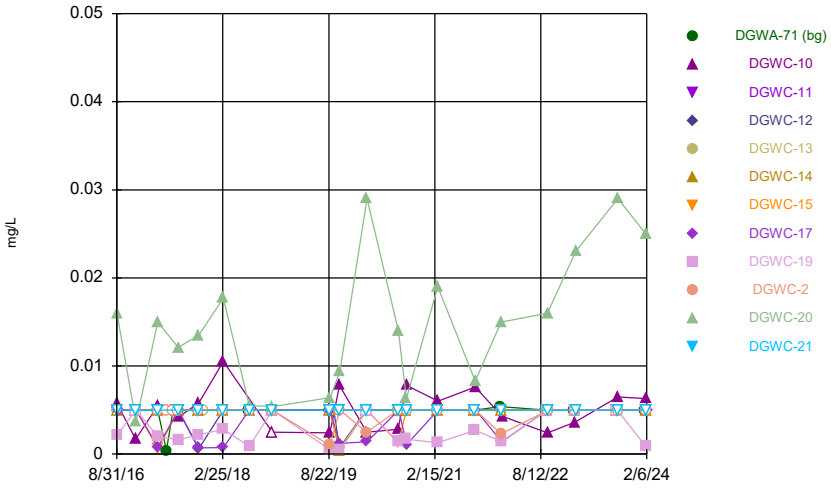

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Hollow symbols indicate censored values.

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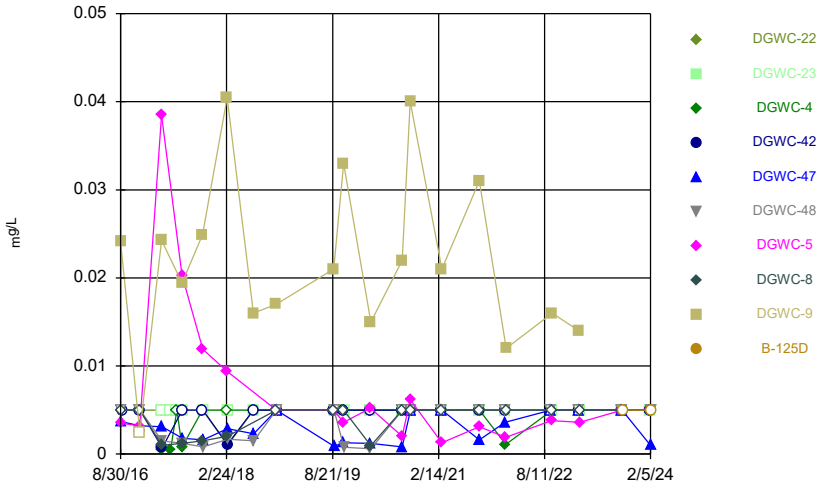

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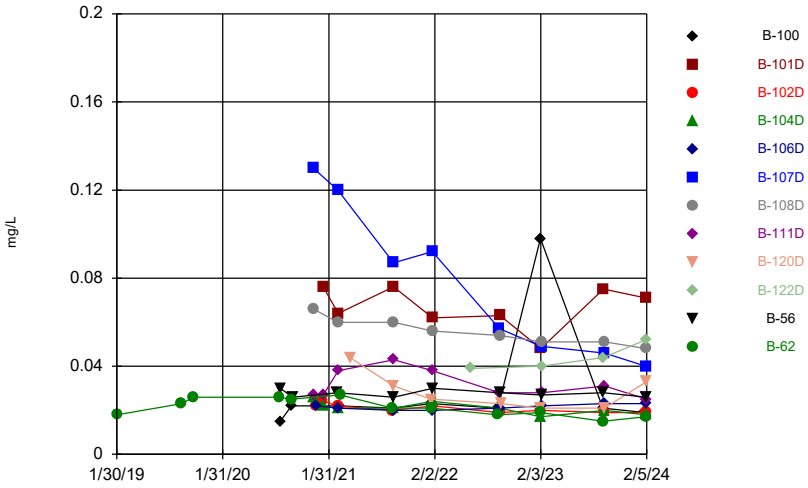
Time Series



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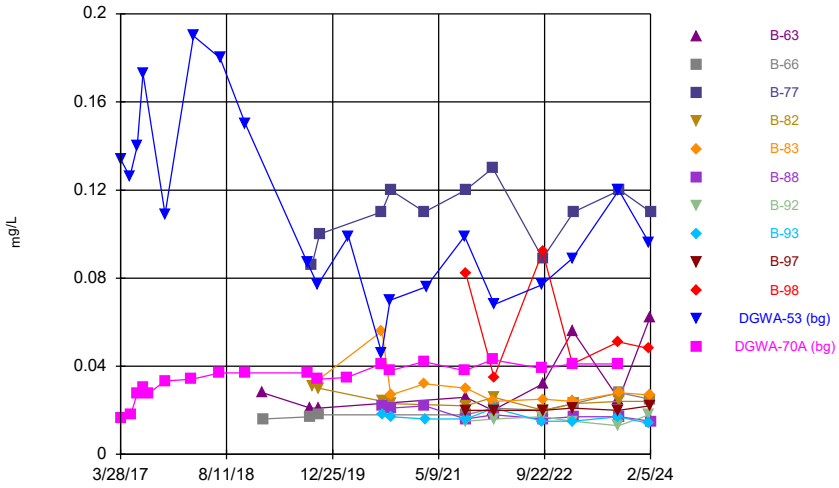

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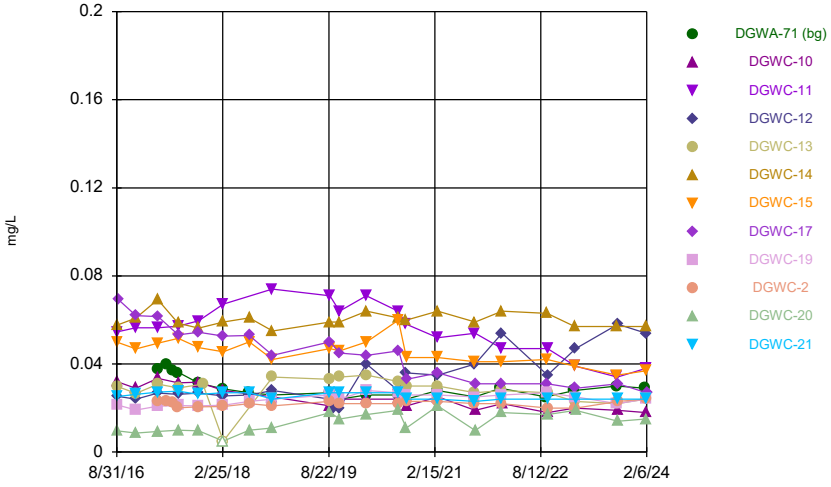

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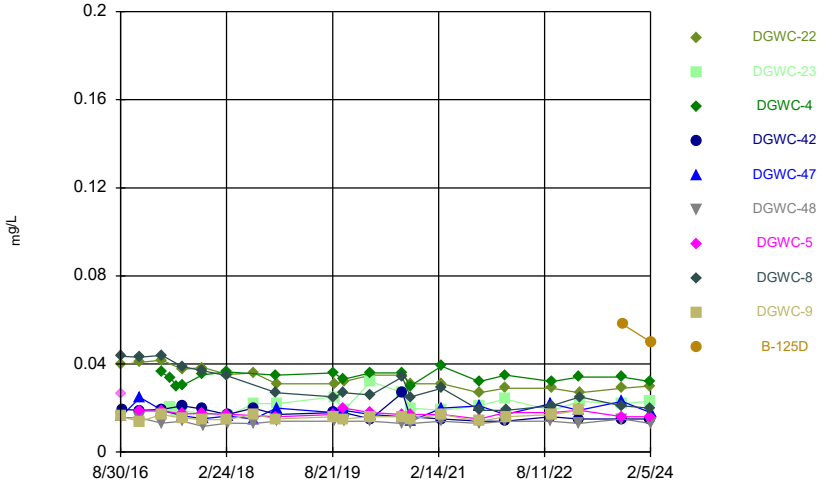
Time Series



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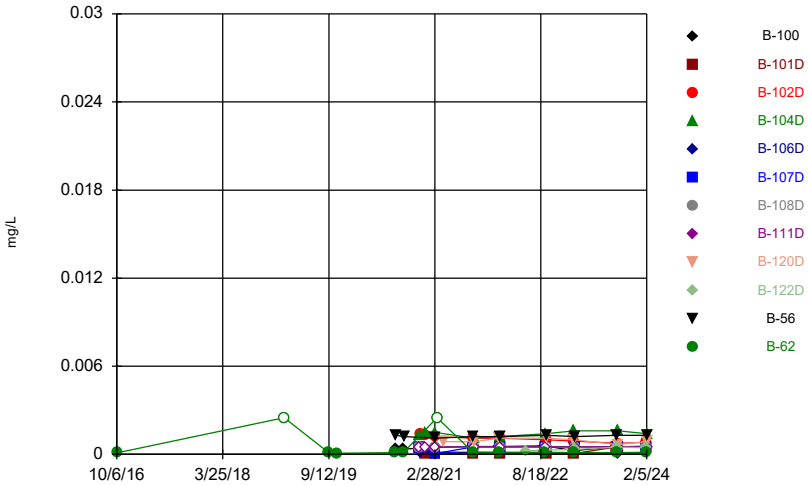

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

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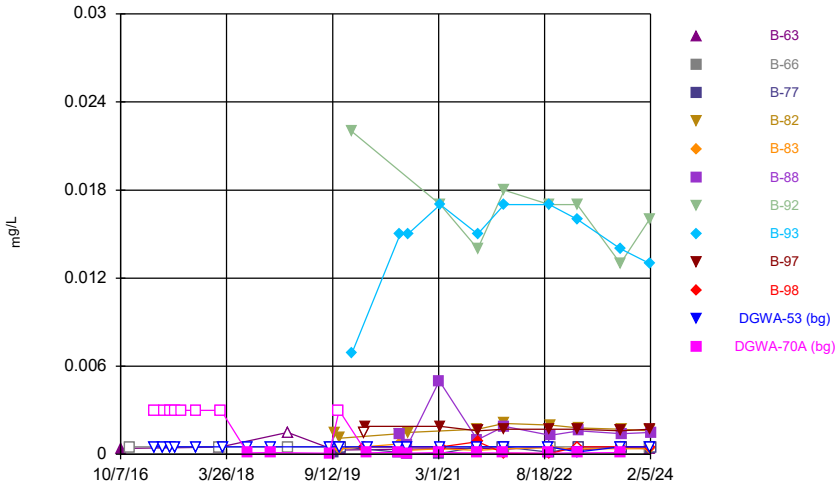

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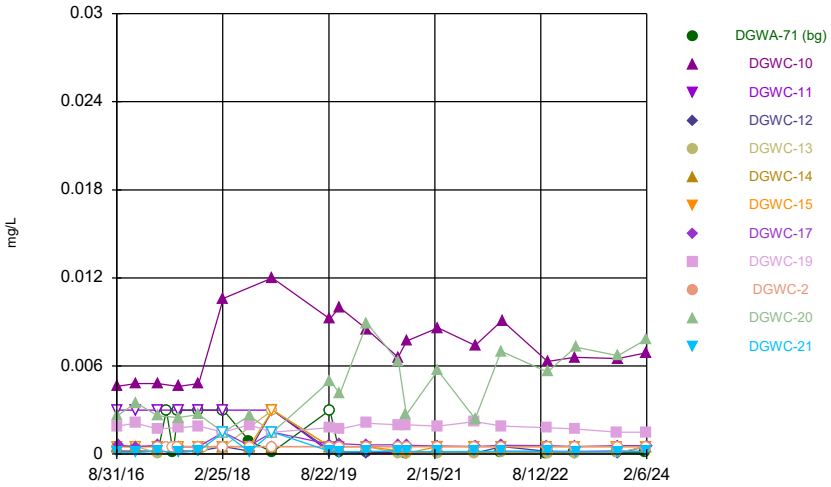

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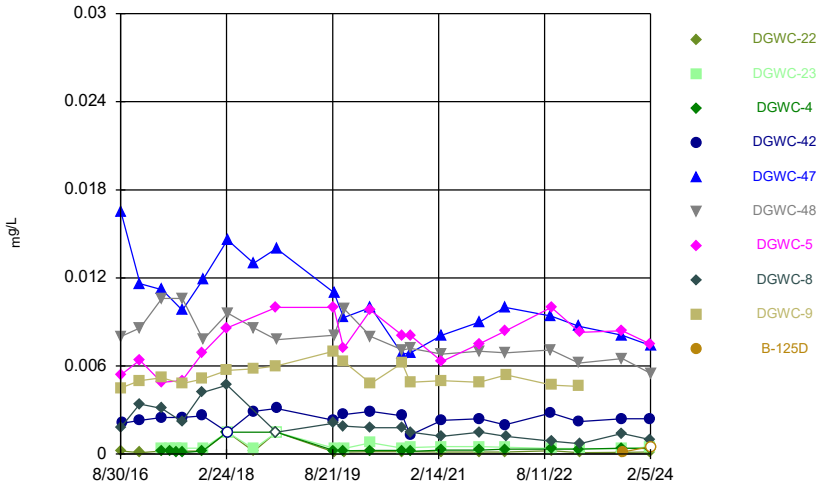

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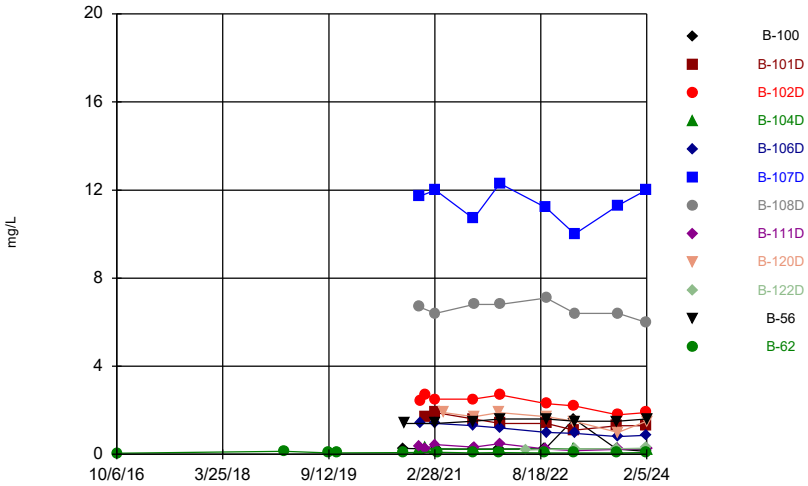

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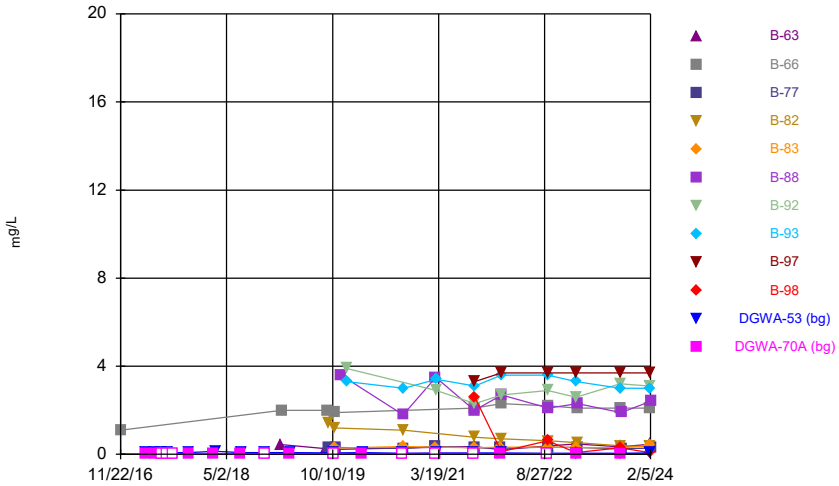

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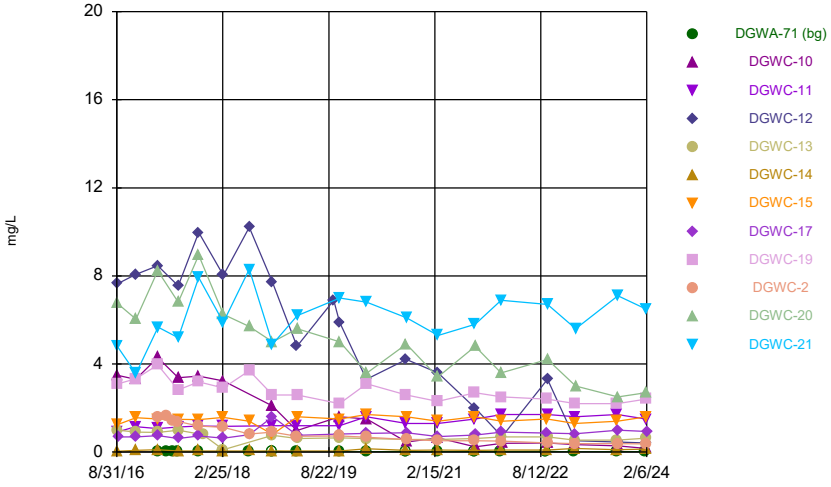

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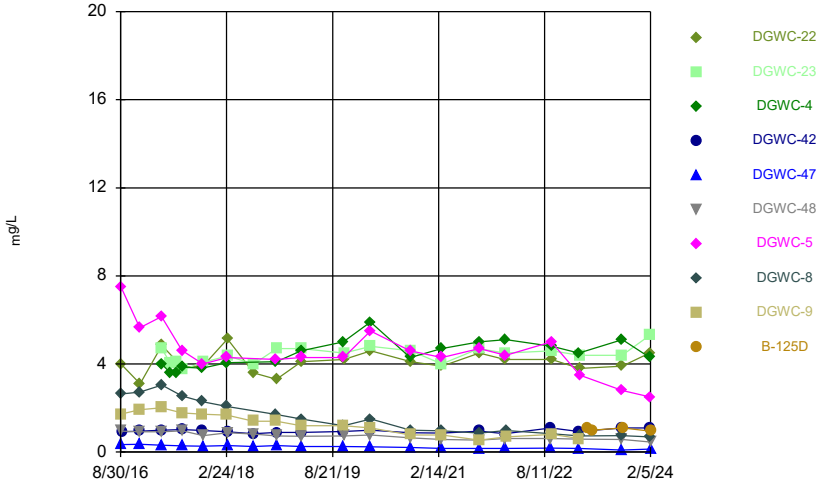

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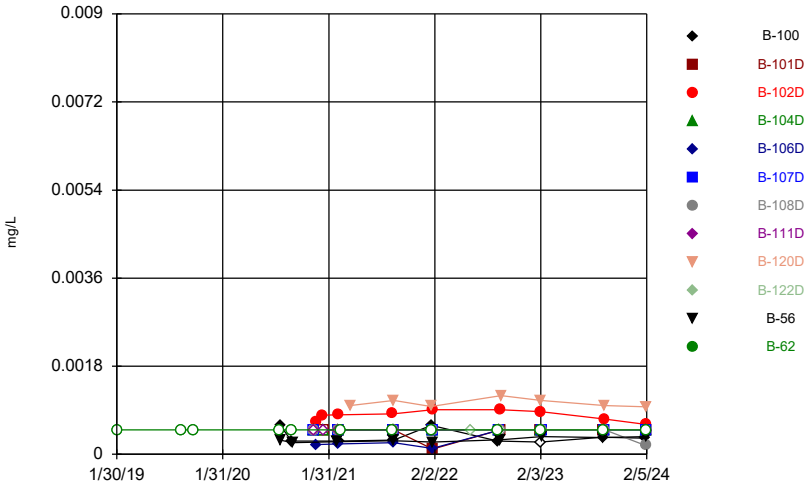

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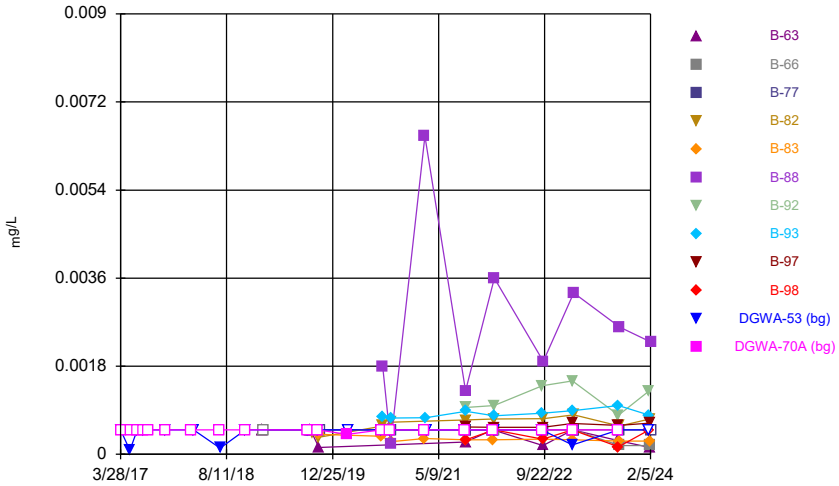

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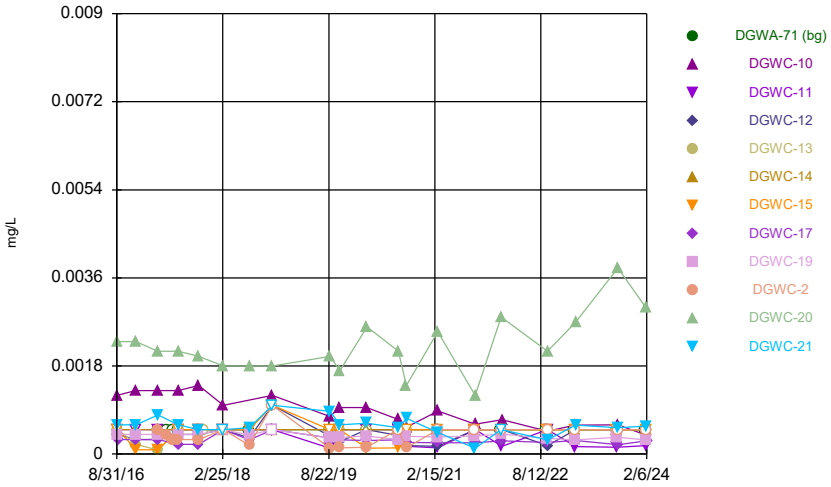

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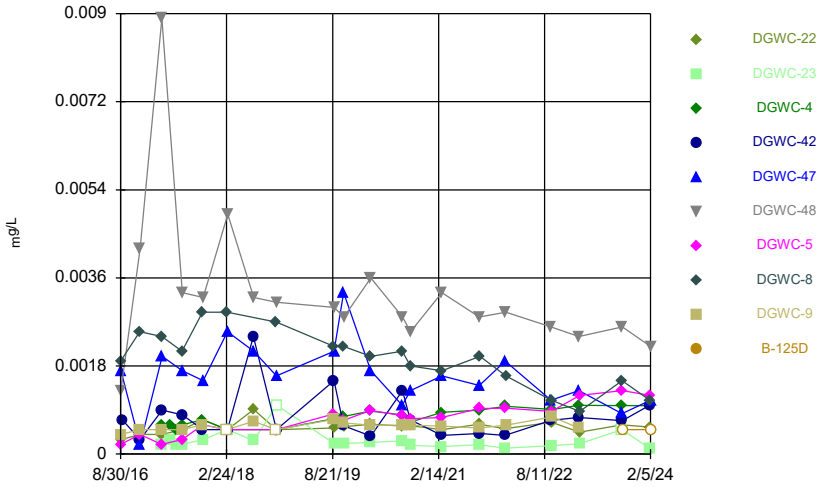

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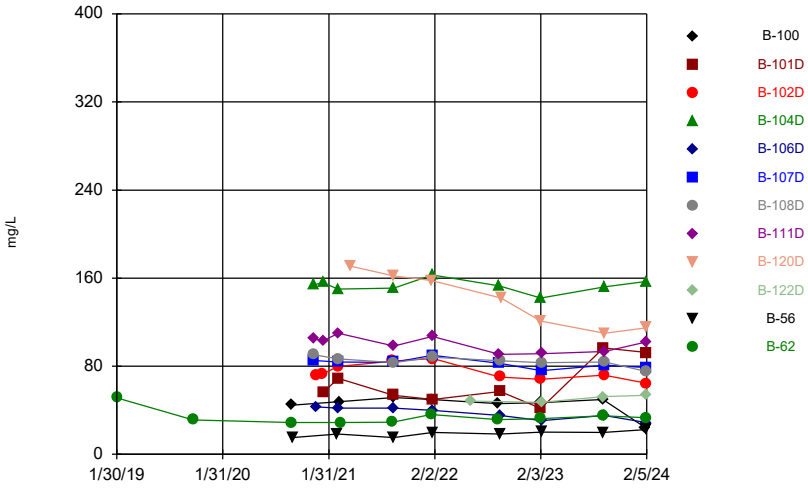

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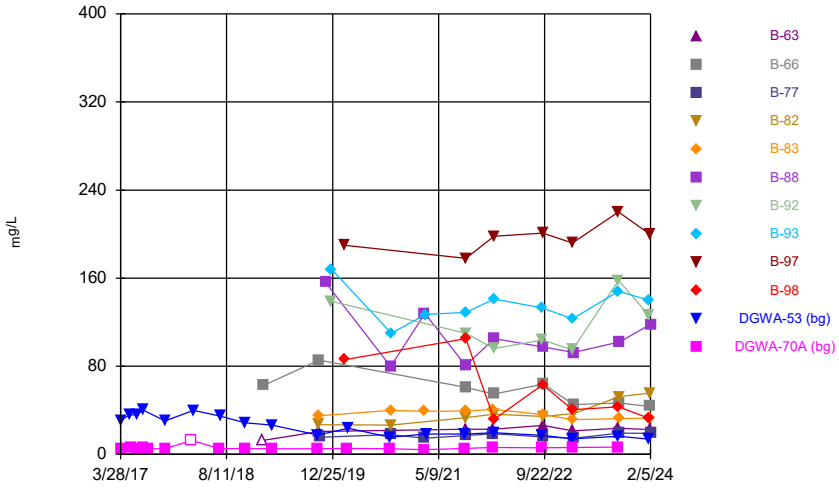

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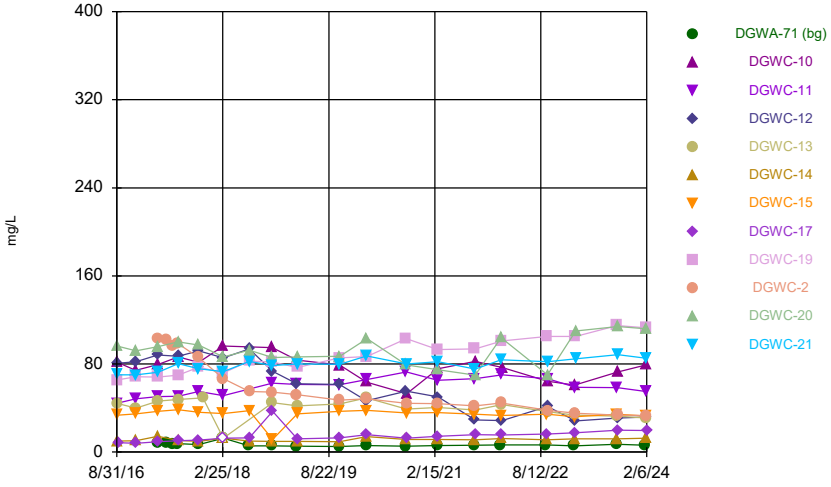

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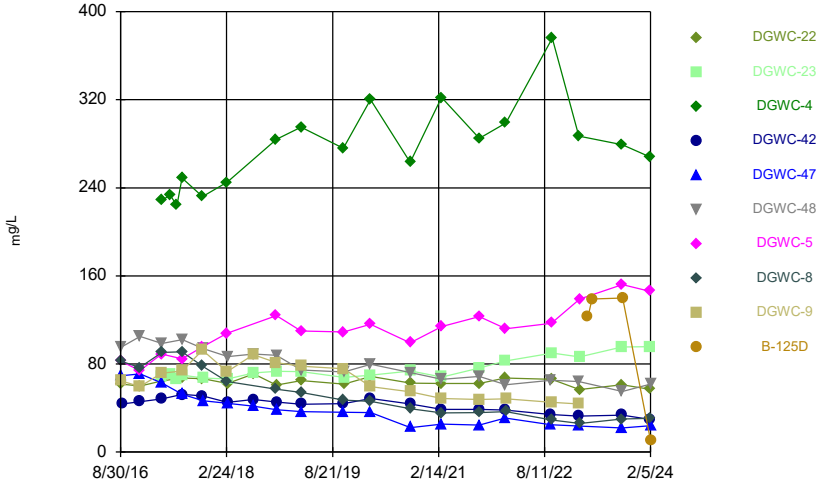

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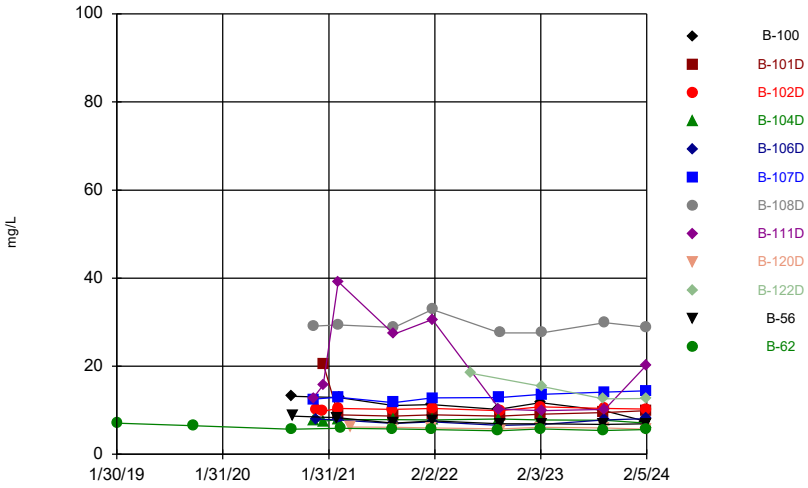

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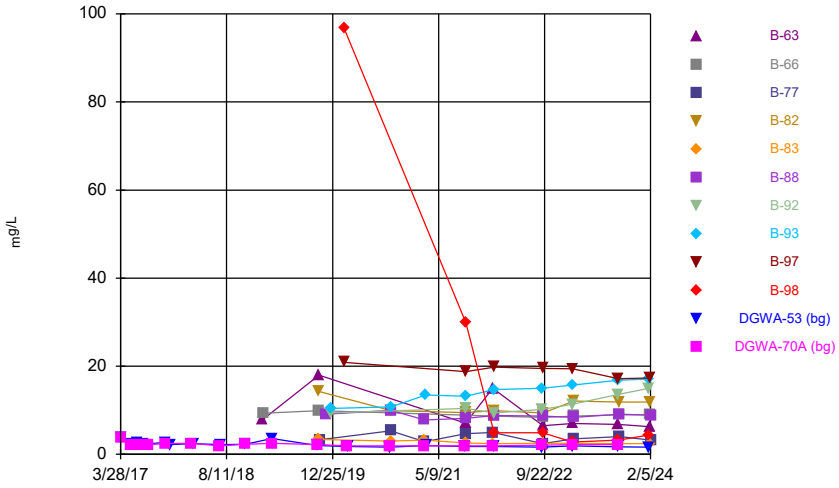
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Time Series



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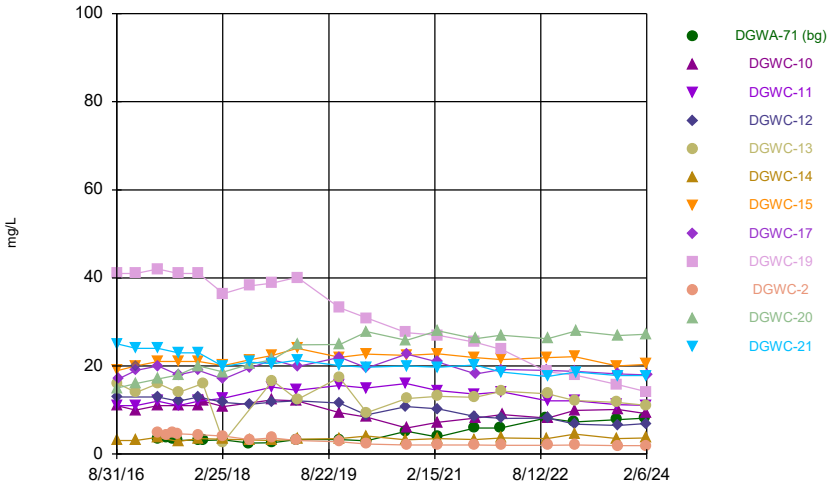

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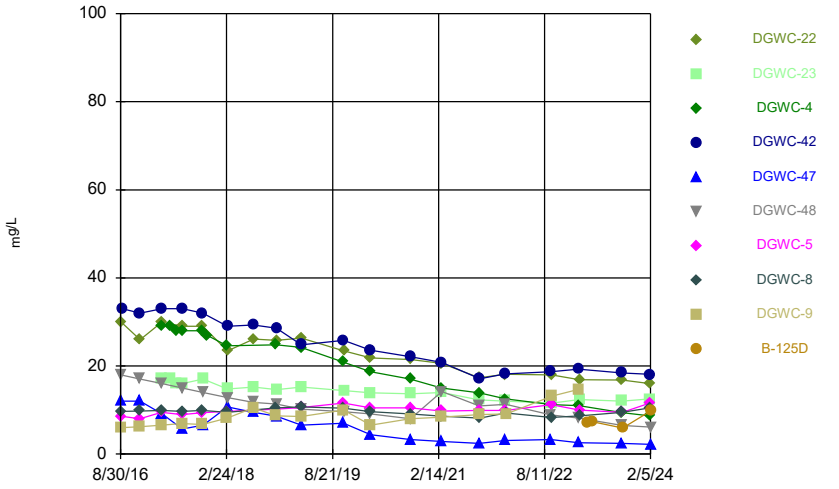

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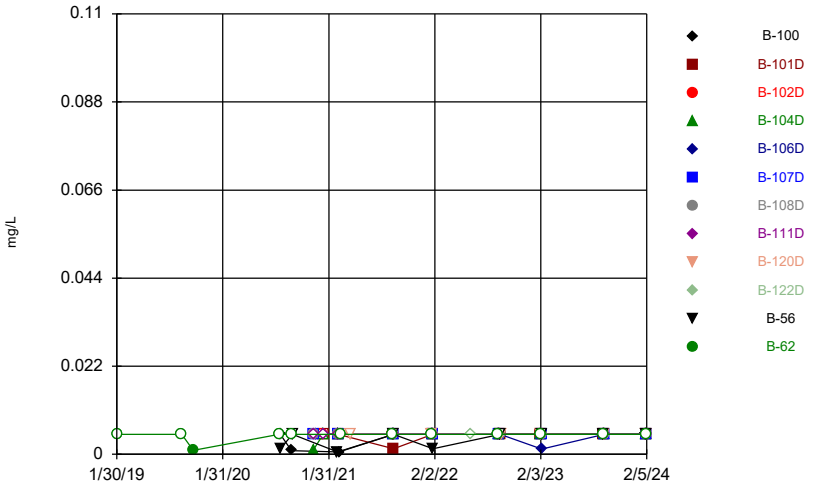

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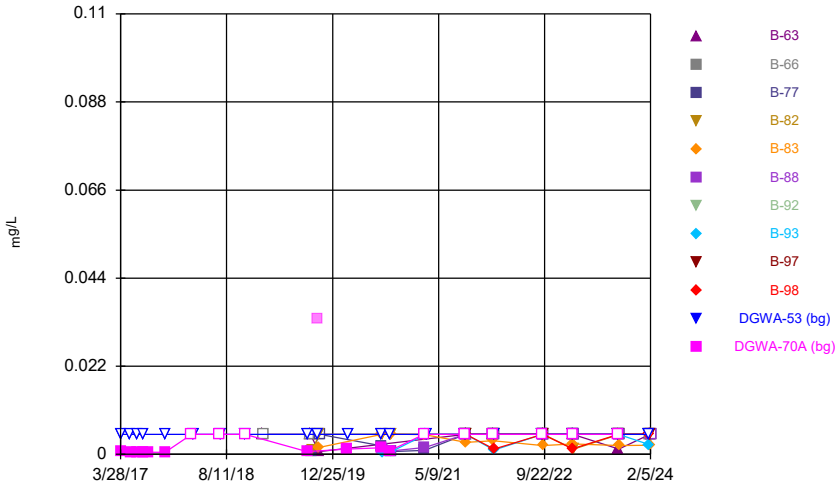

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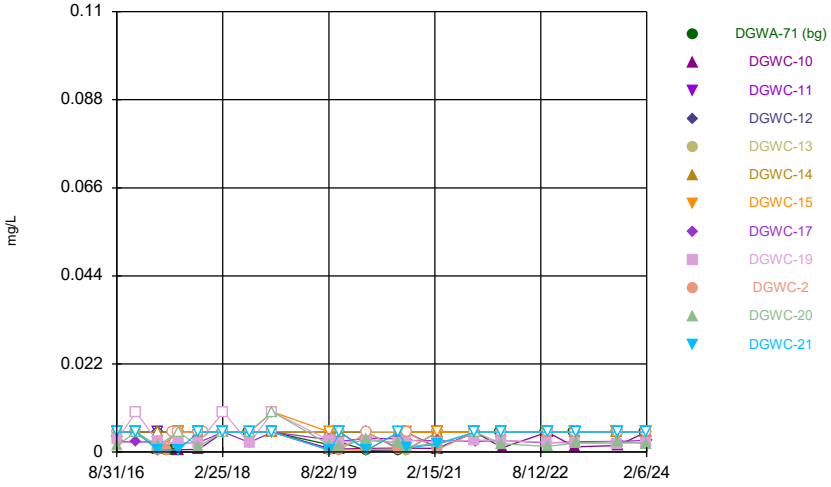
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

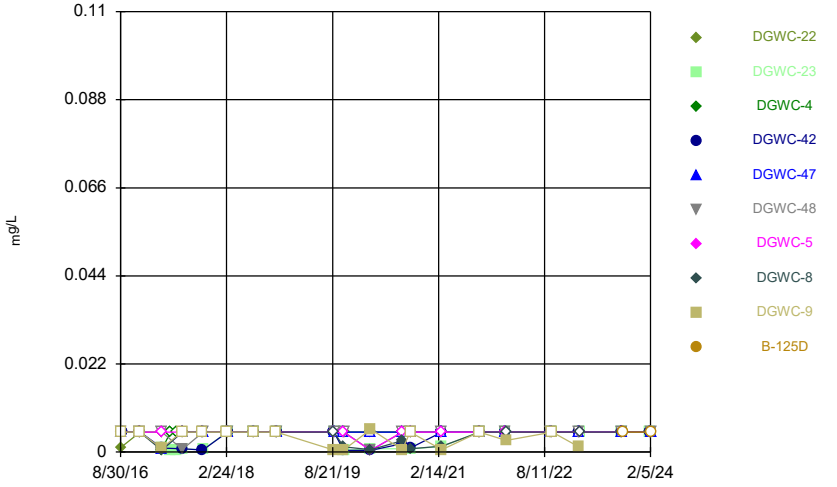
Time Series



Constituent: Chromium Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

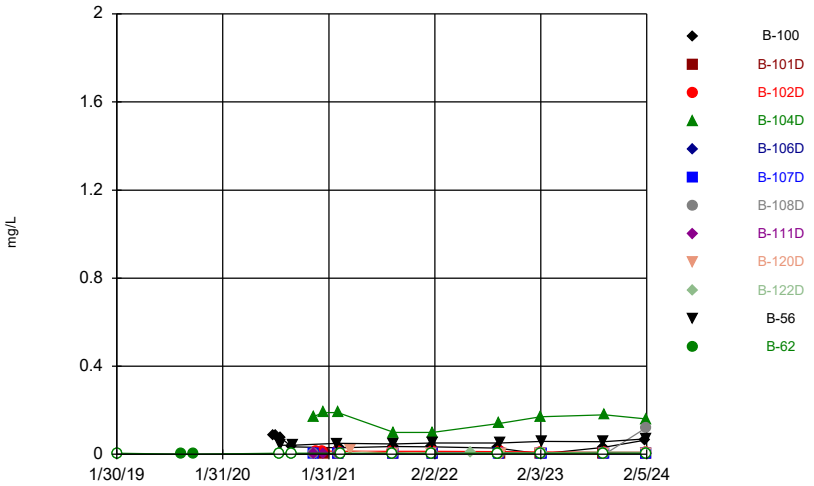
Time Series



Constituent: Chromium Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

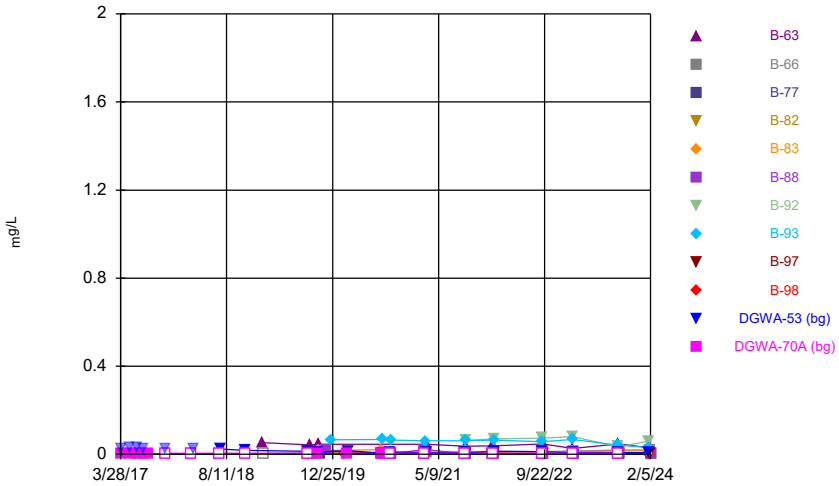
Time Series



Constituent: Cobalt Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

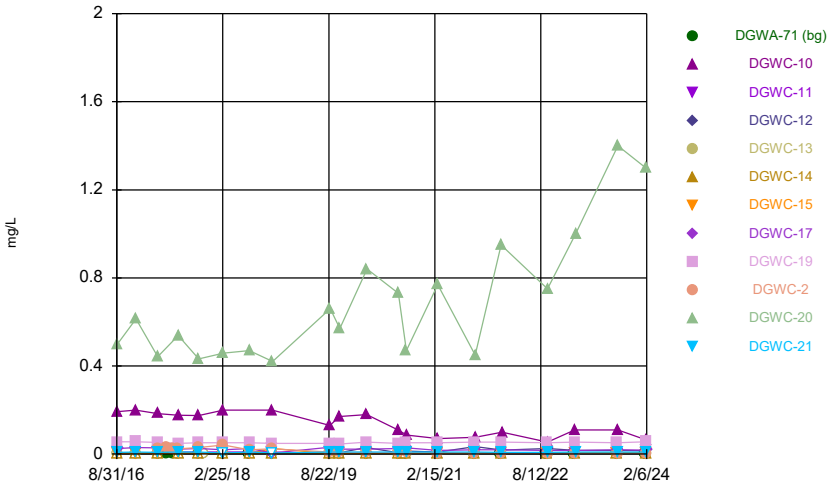
Time Series



Constituent: Cobalt Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

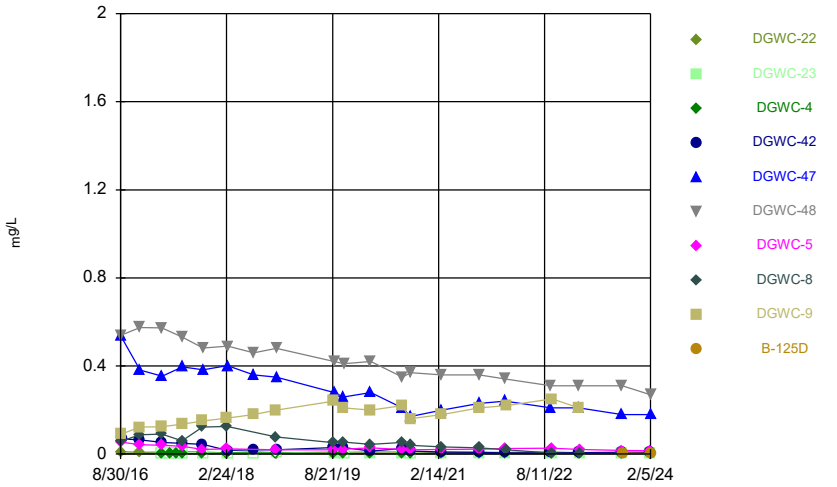
Time Series



Constituent: Cobalt Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

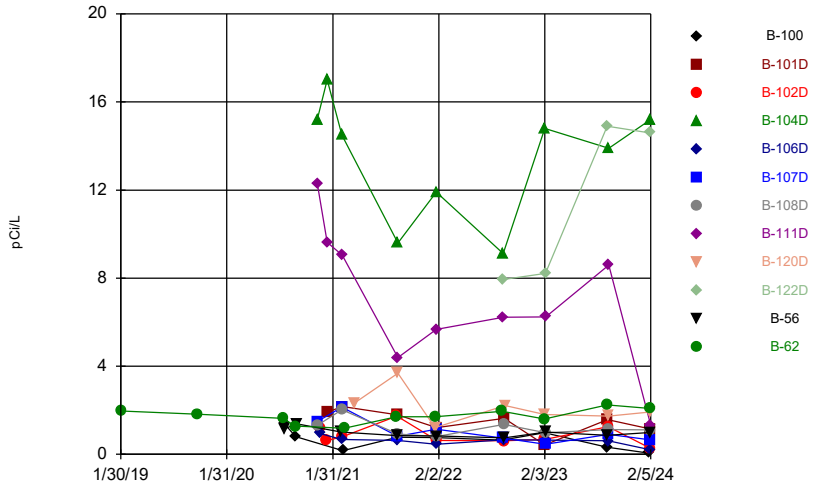
Time Series



Constituent: Cobalt Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

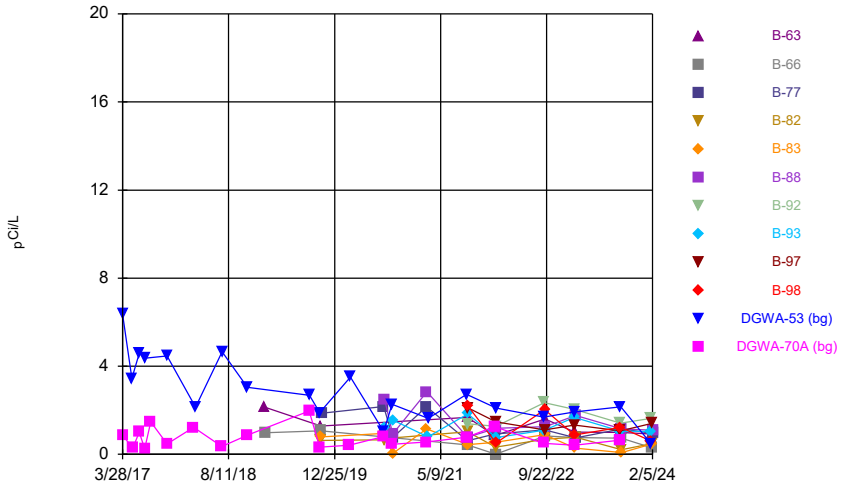
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

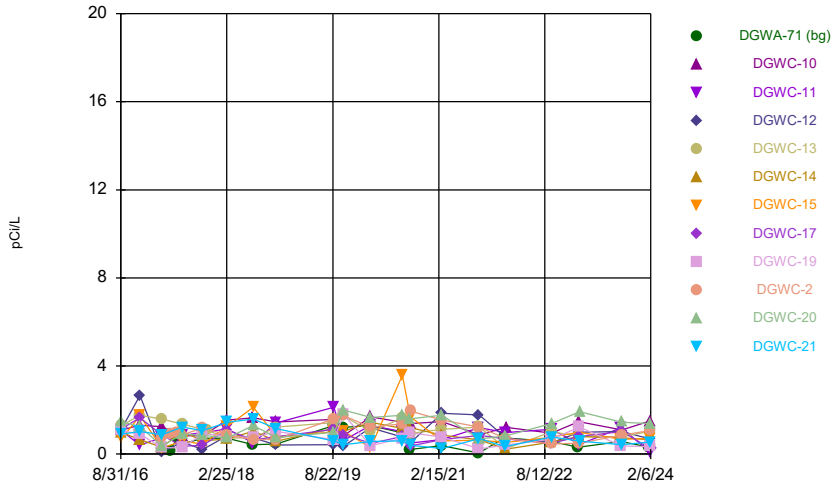
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

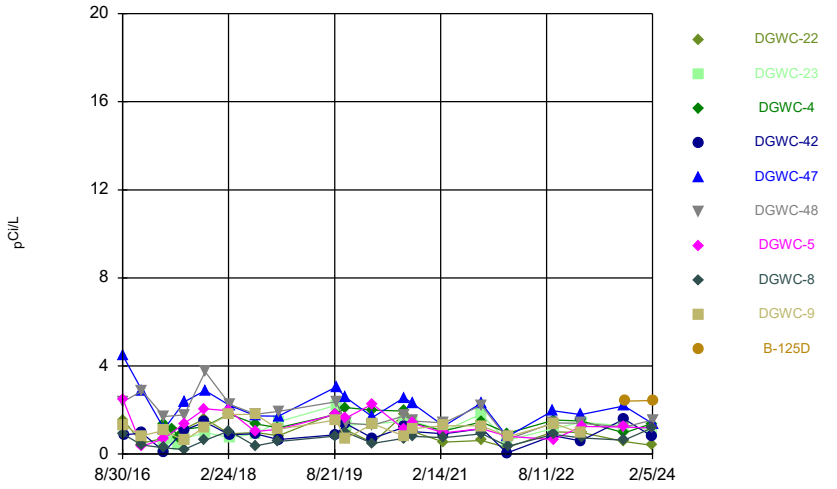
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

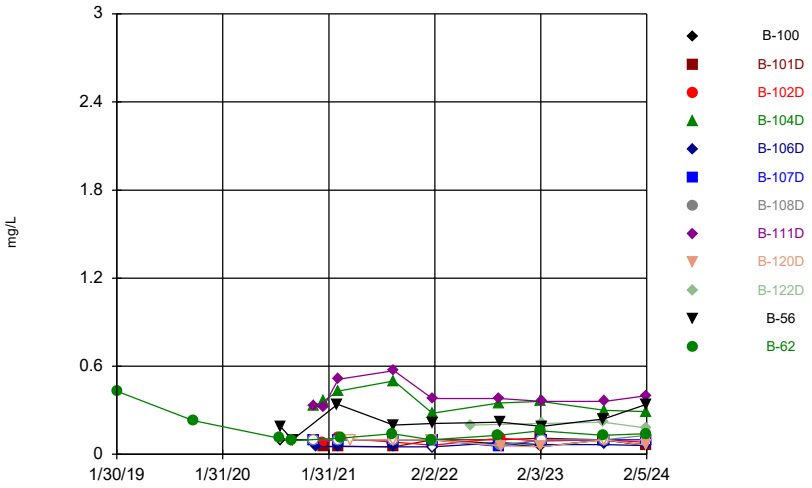
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

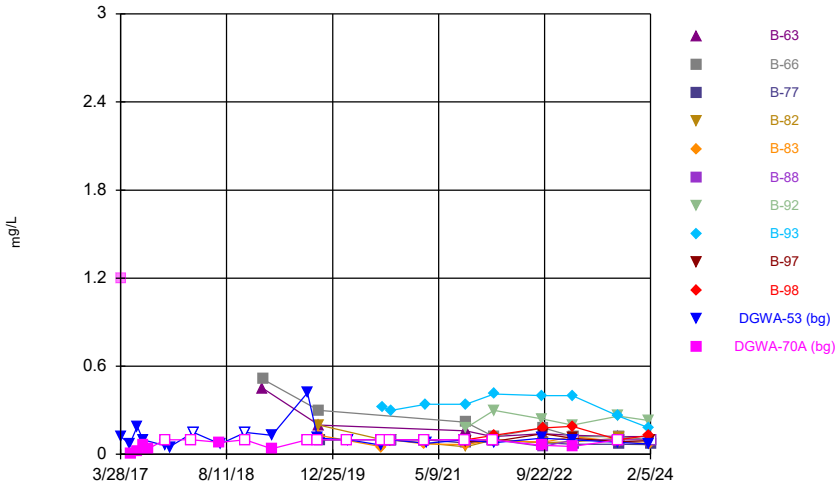
Time Series



Constituent: Fluoride Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

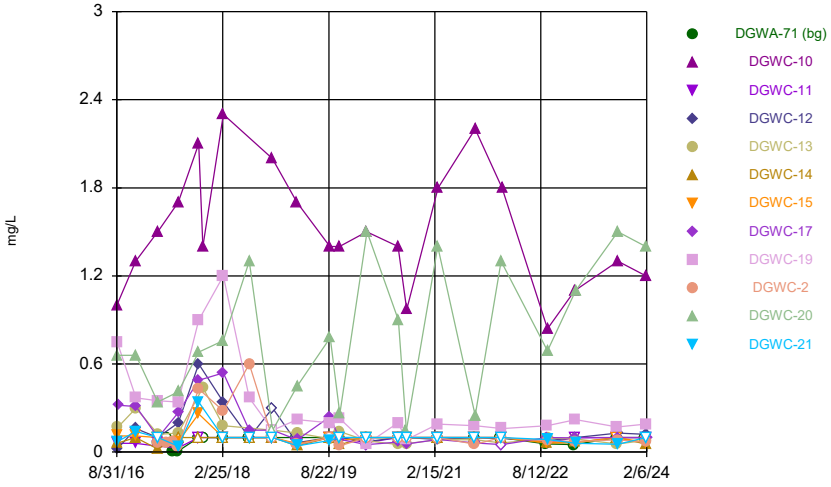
Time Series



Constituent: Fluoride Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

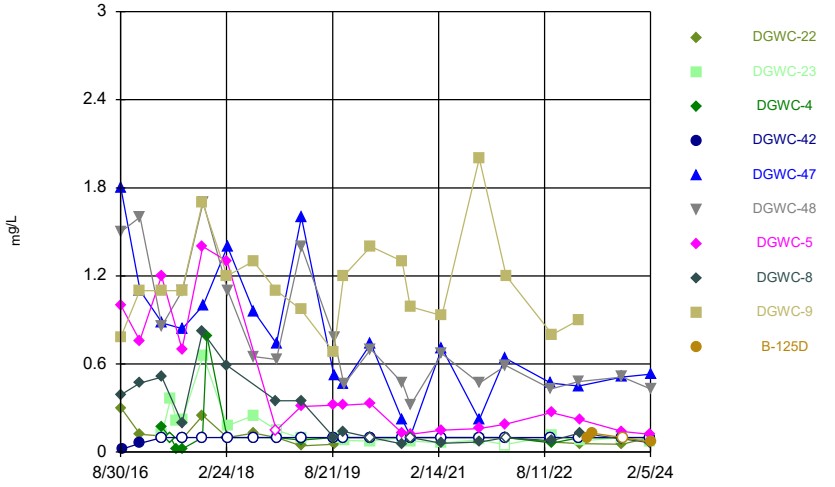
Time Series



Constituent: Fluoride Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

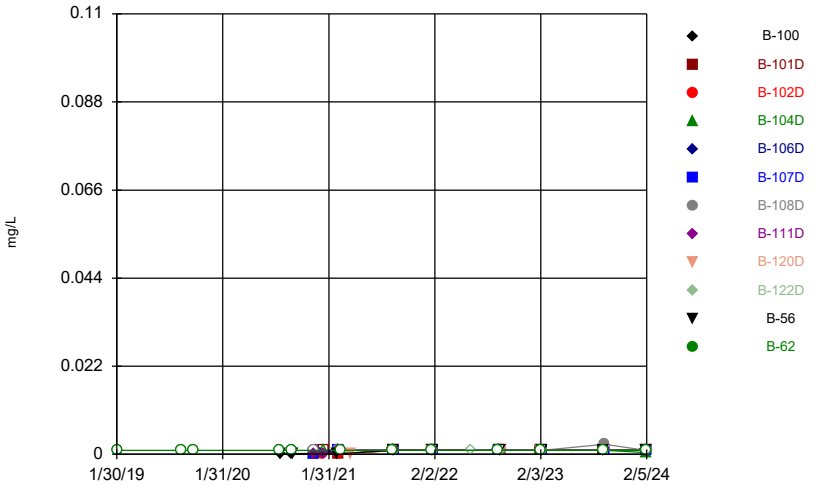
Time Series



Constituent: Fluoride Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

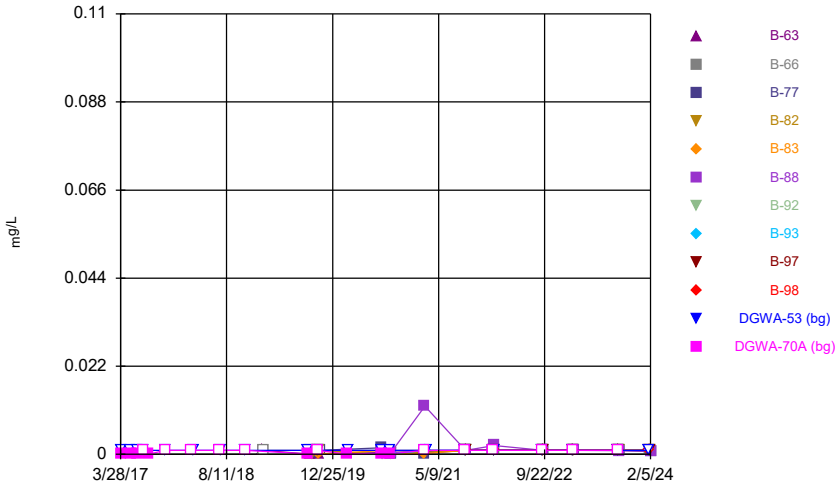
Time Series



Constituent: Lead Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

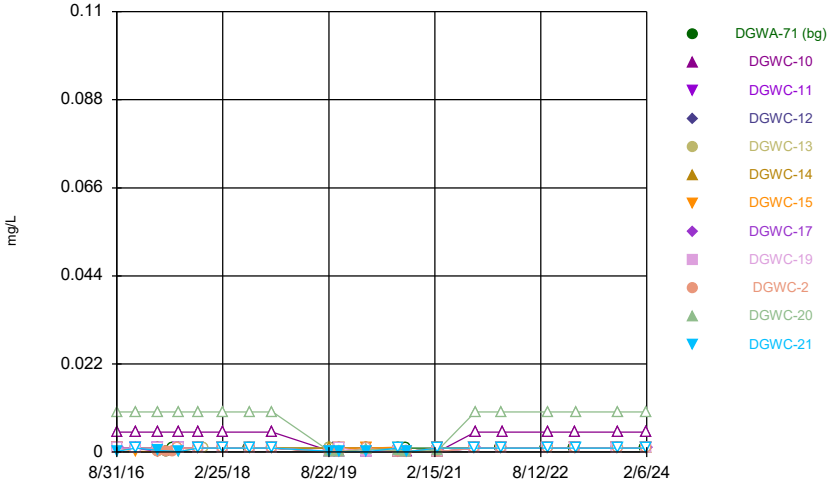
Time Series



Constituent: Lead Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

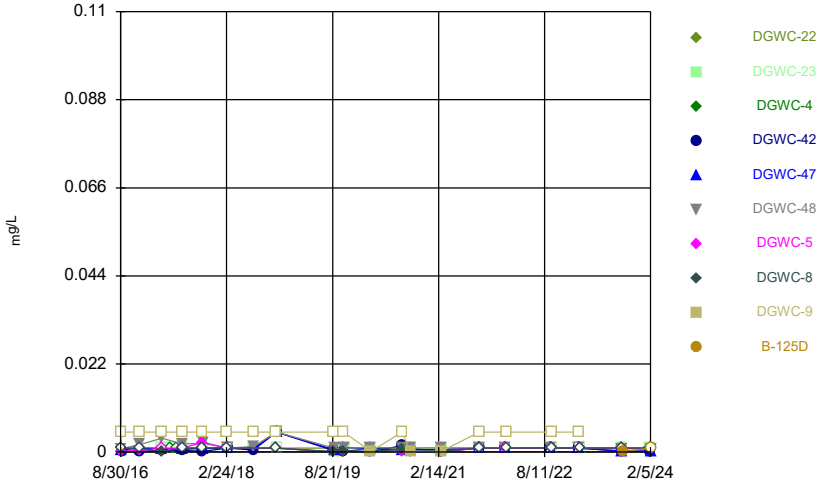
Time Series



Constituent: Lead Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

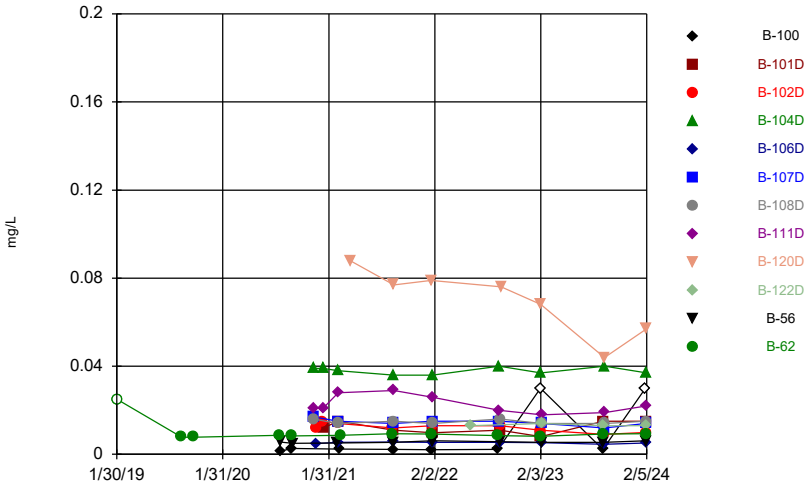
Time Series



Constituent: Lead Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

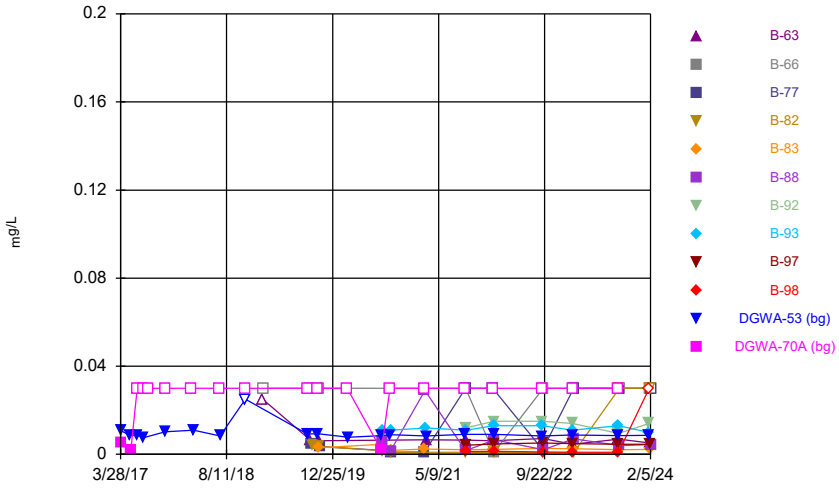
Time Series



Constituent: Lithium Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

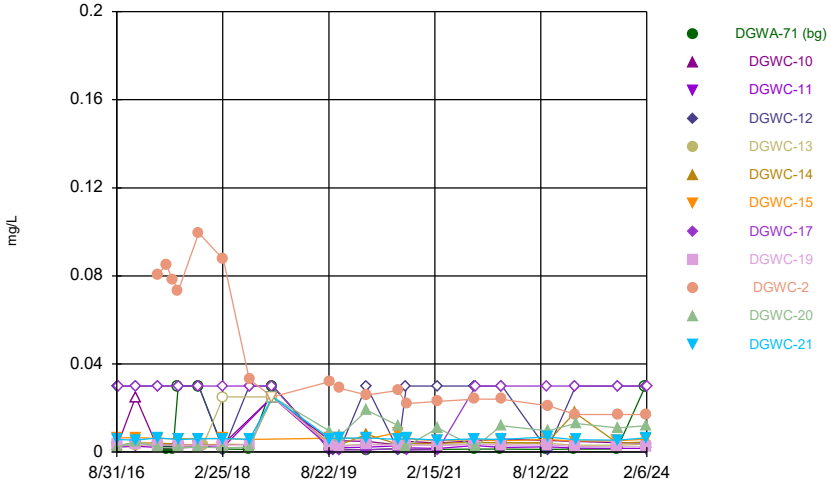
Time Series



Constituent: Lithium Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

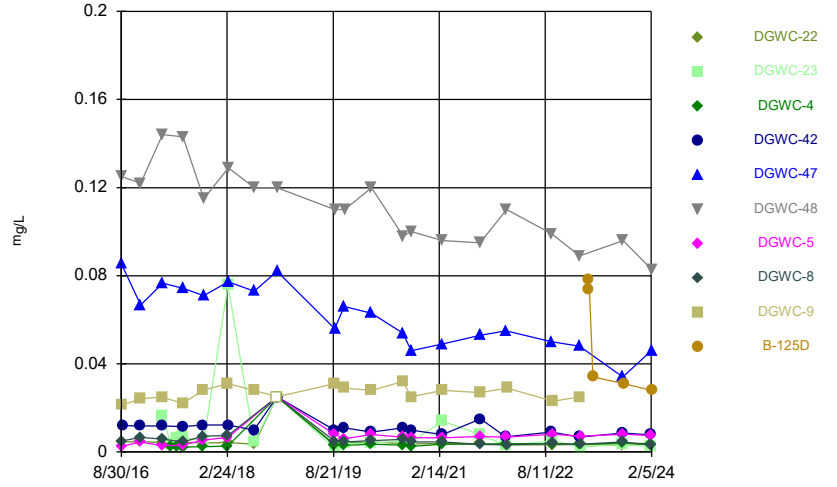
Time Series



Constituent: Lithium Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

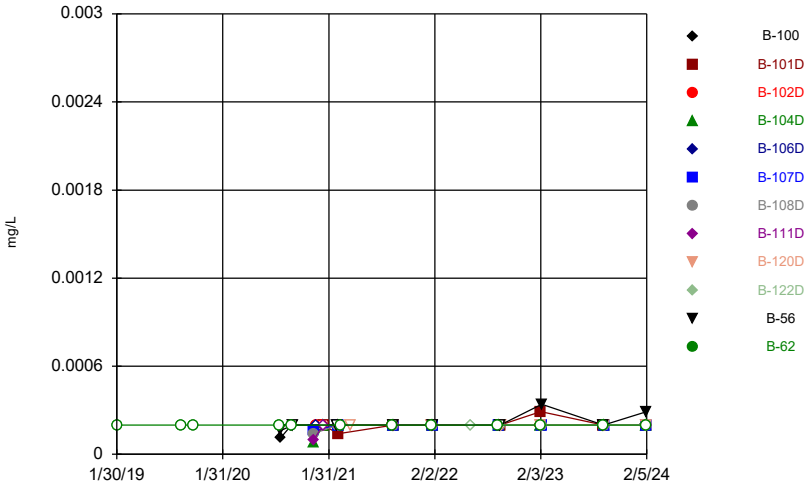
Time Series



Constituent: Lithium Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

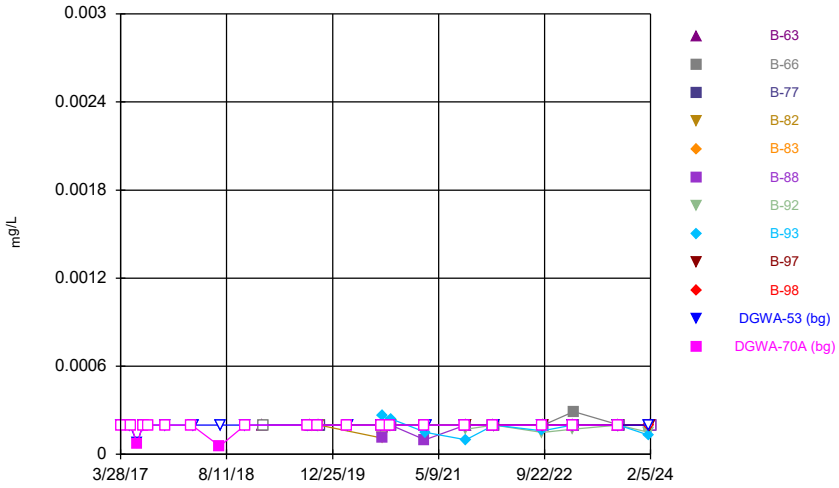
Time Series



Constituent: Mercury Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

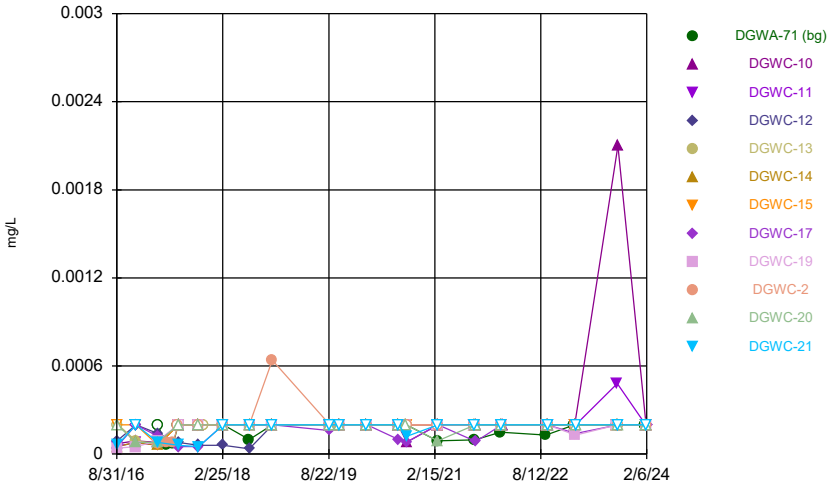
Time Series



Constituent: Mercury Analysis Run 4/3/2024 4:06 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

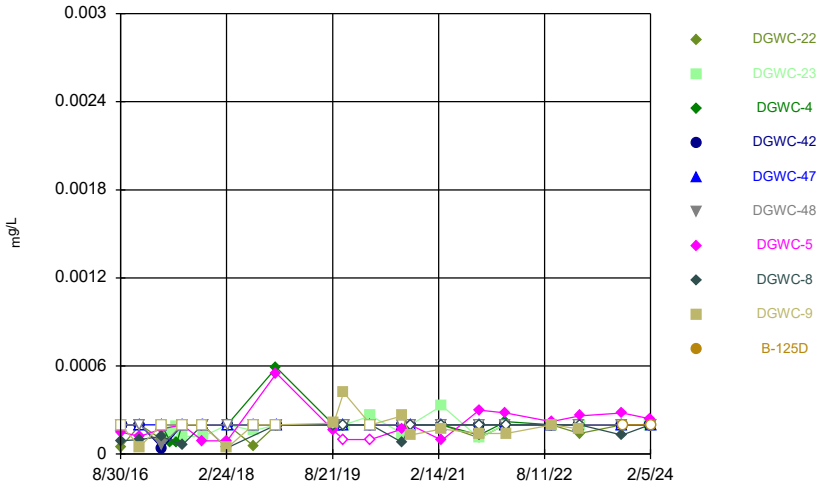
Time Series



Constituent: Mercury Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

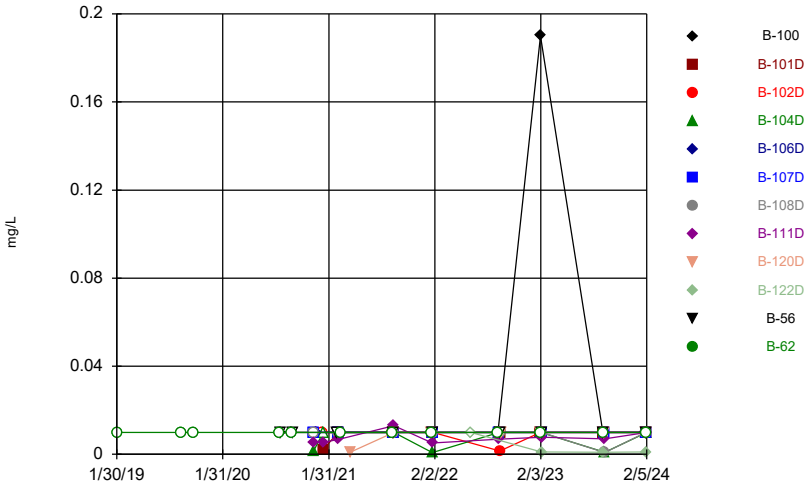
Time Series



Constituent: Mercury Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

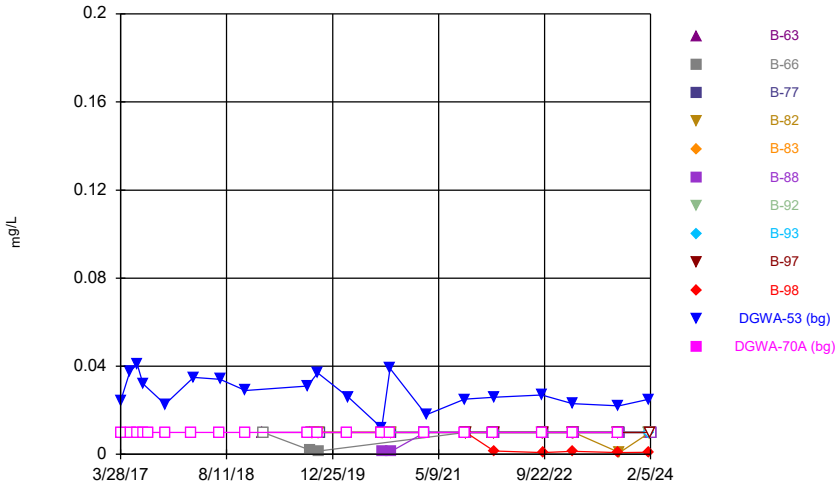
Time Series



Constituent: Molybdenum Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

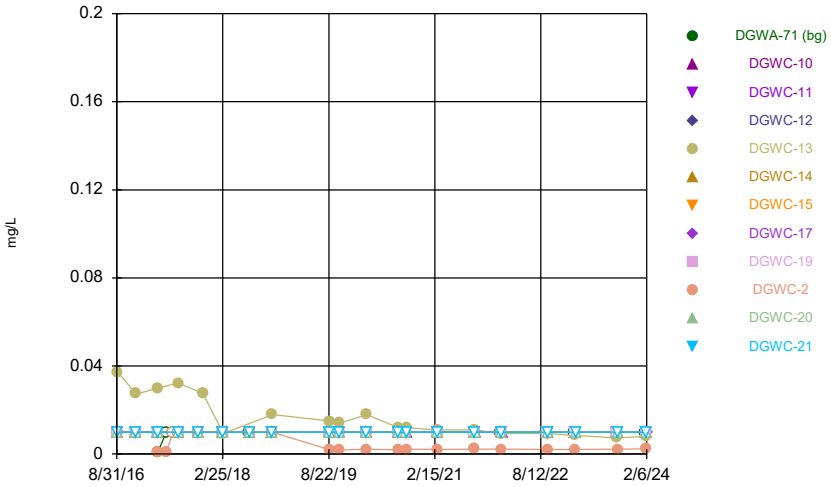
Time Series



Constituent: Molybdenum Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

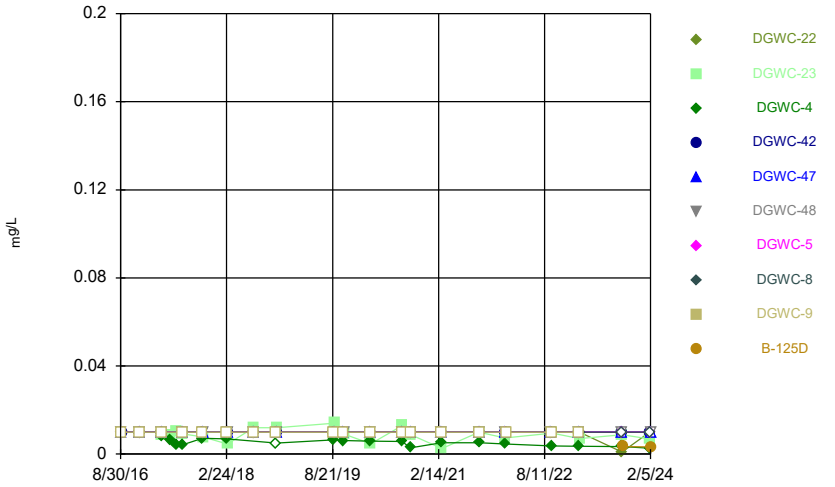
Time Series



Constituent: Molybdenum Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

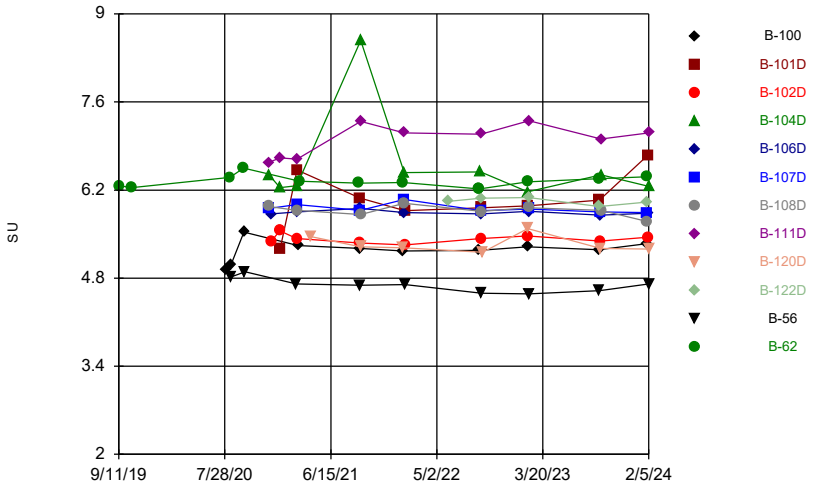
Time Series



Constituent: Molybdenum Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

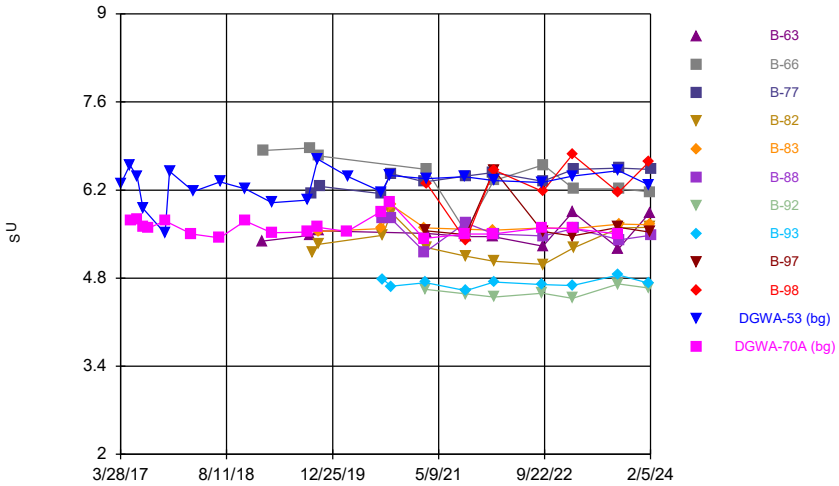
Time Series



Constituent: pH, Field Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

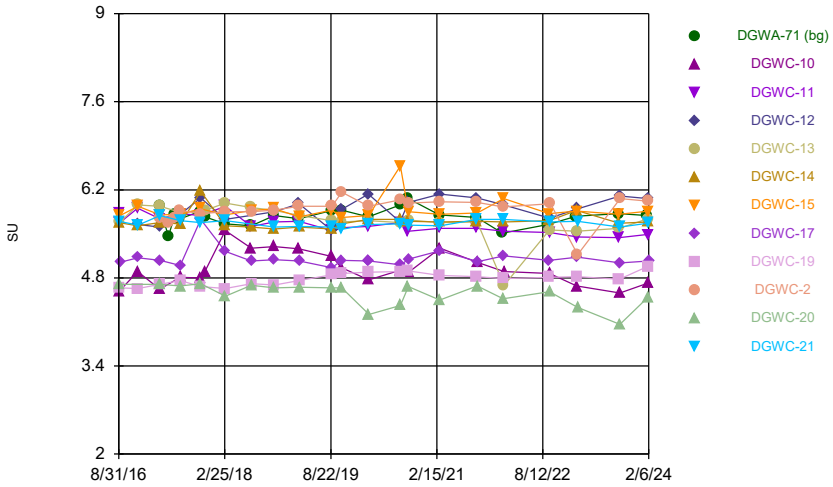
Time Series



Constituent: pH, Field Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

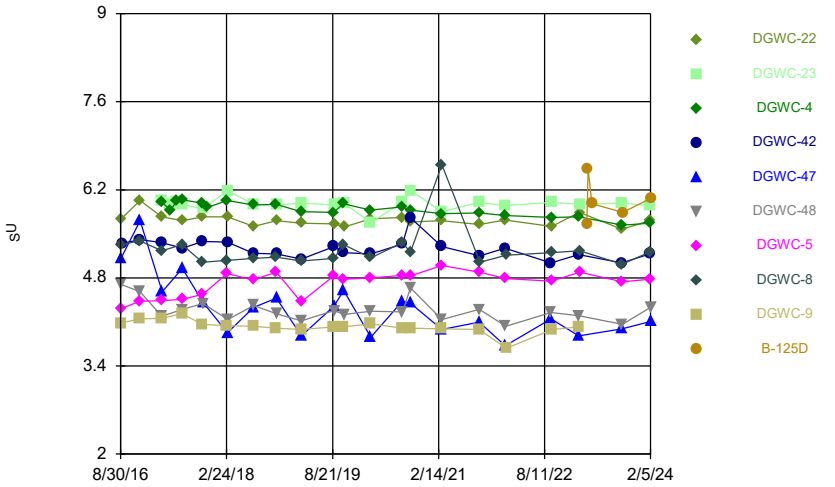
Time Series



Constituent: pH, Field Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

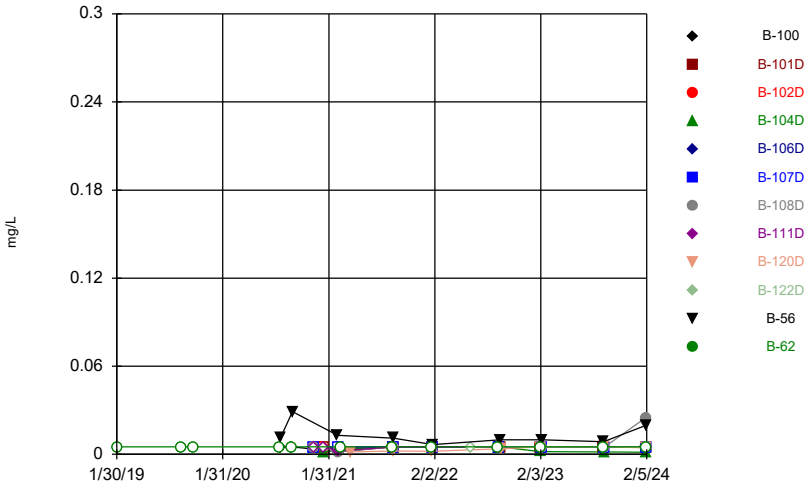
Time Series



Constituent: pH, Field Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

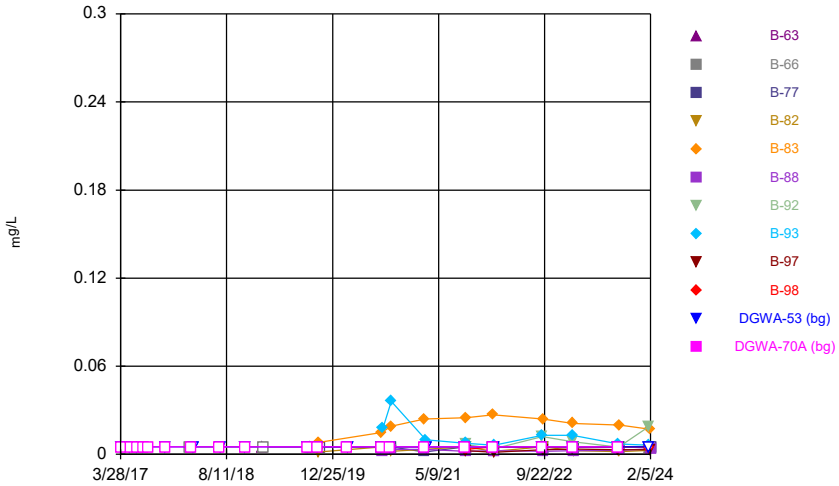
Time Series



Constituent: Selenium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

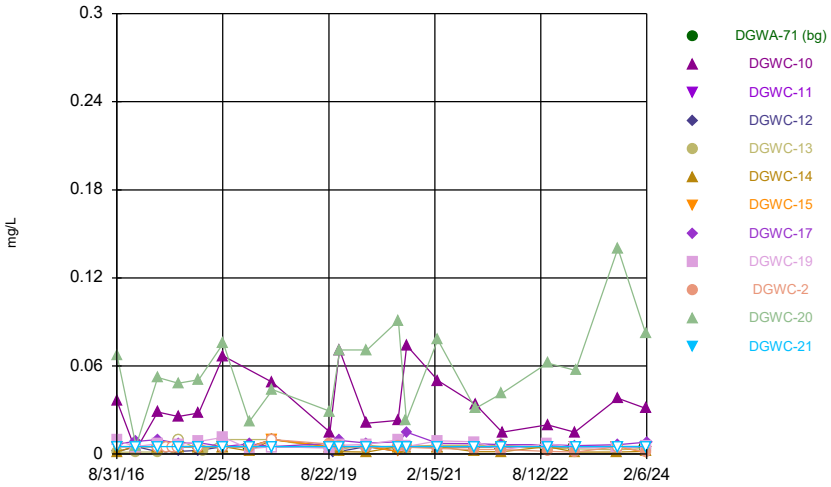
Time Series



Constituent: Selenium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

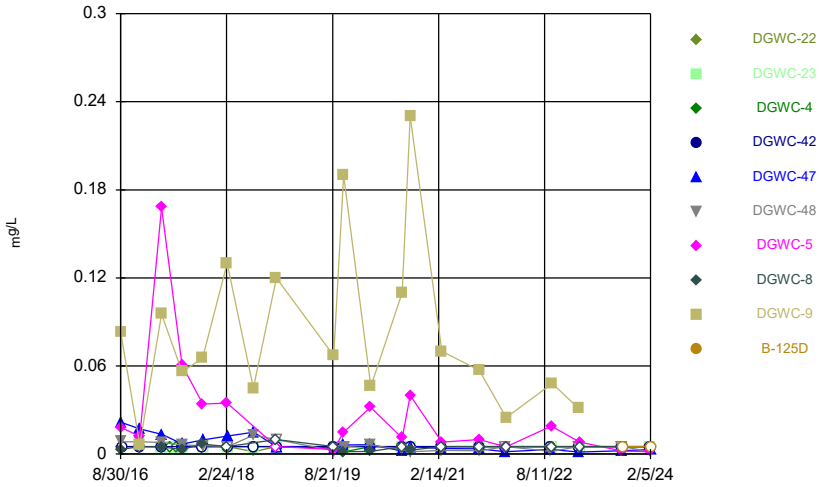
Time Series



Constituent: Selenium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

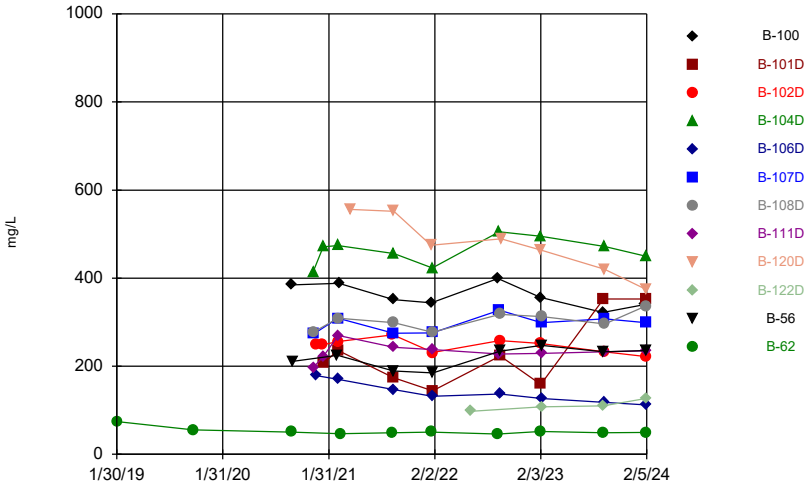
Time Series



Constituent: Selenium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

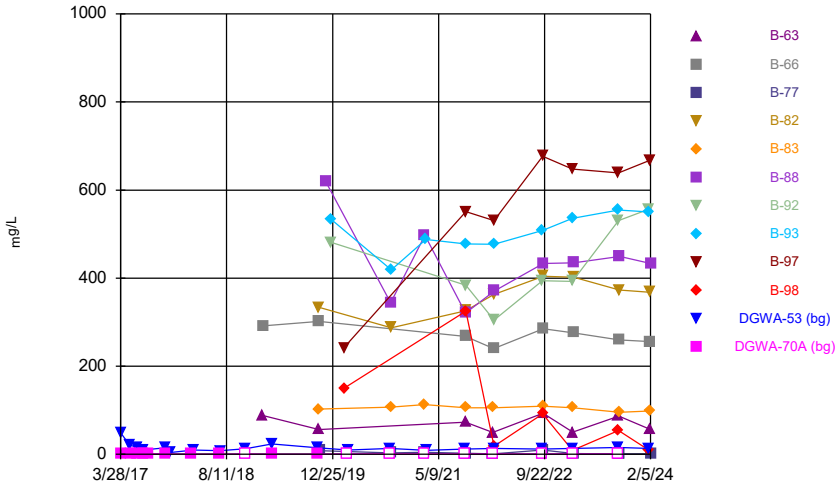
Time Series



Constituent: Sulfate Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

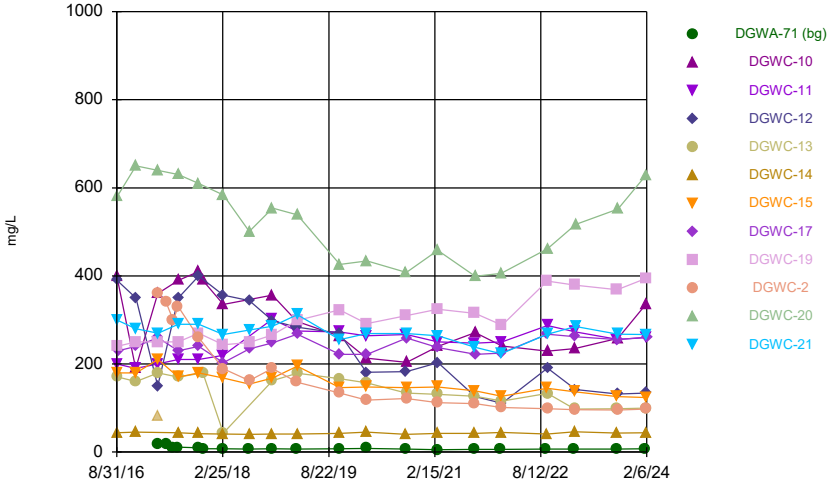
Time Series



Constituent: Sulfate Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

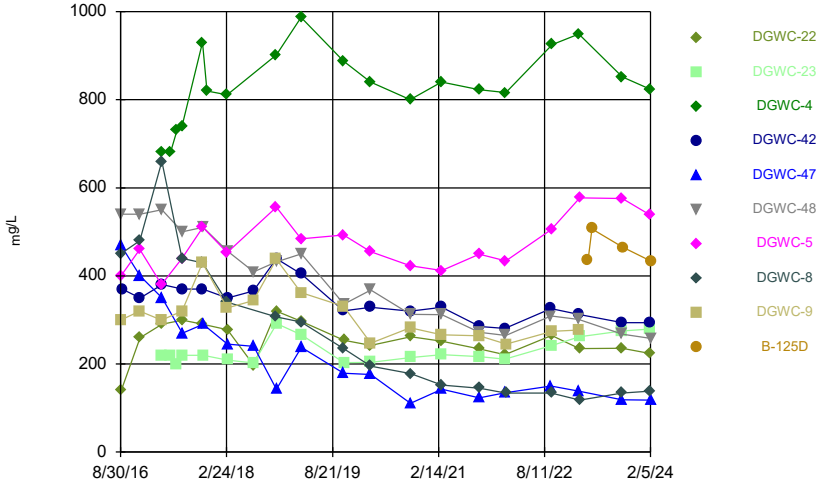
Time Series



Constituent: Sulfate Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

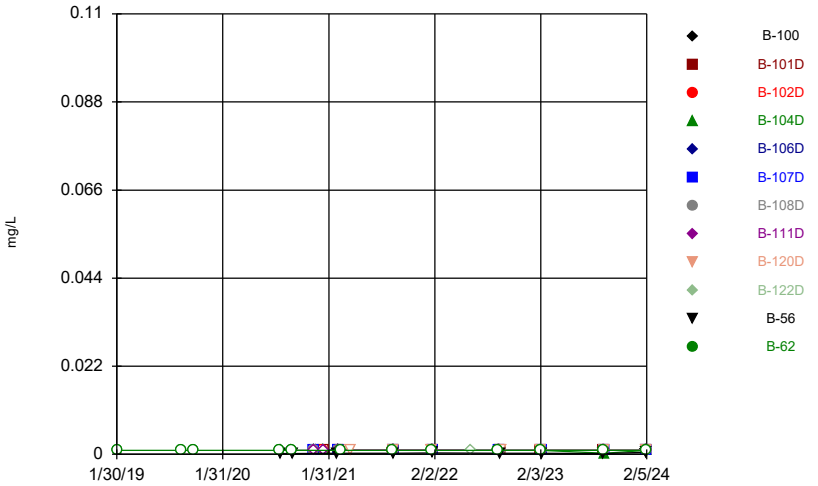
Time Series



Constituent: Sulfate Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

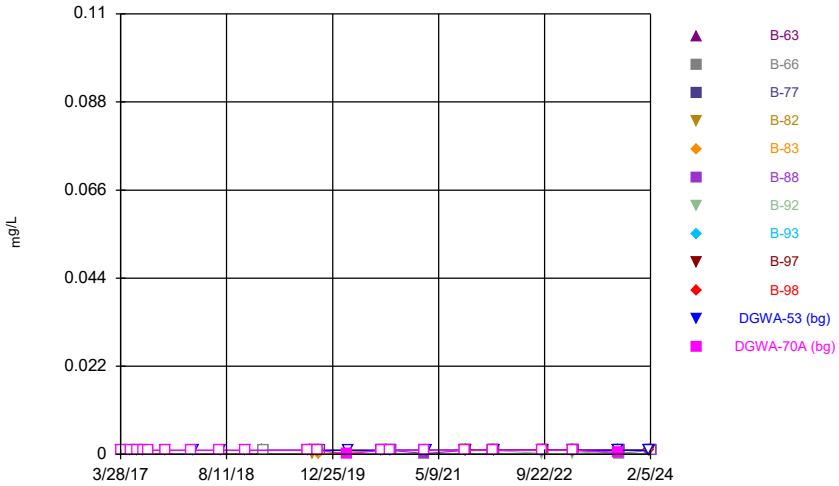
Time Series



Constituent: Thallium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

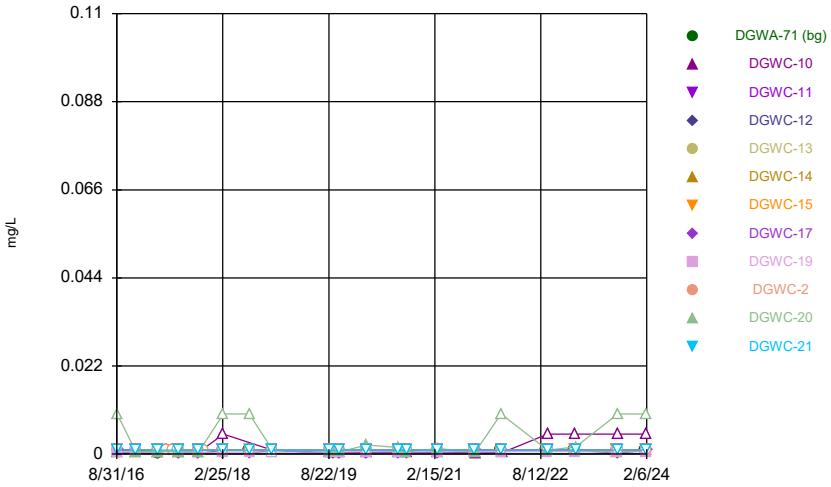
Time Series



Constituent: Thallium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

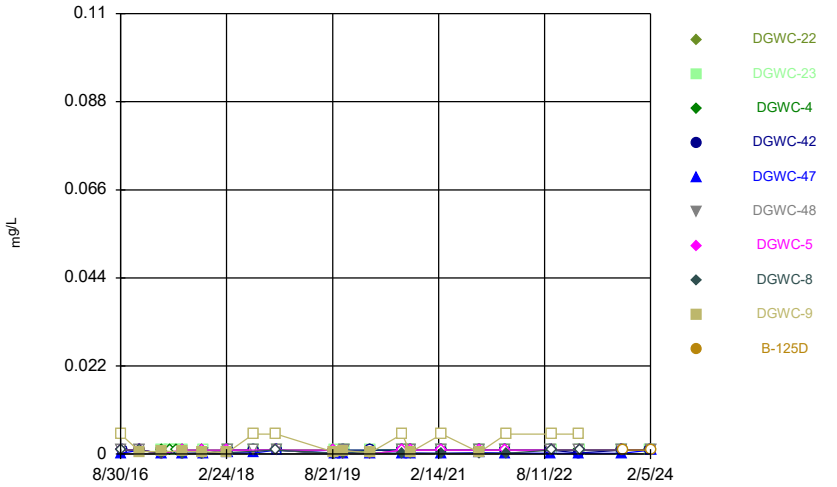
Time Series



Constituent: Thallium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

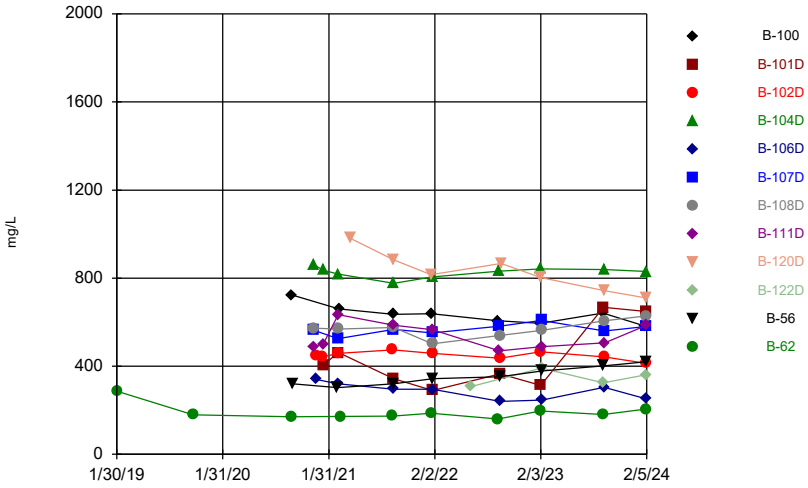
Time Series



Constituent: Thallium Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

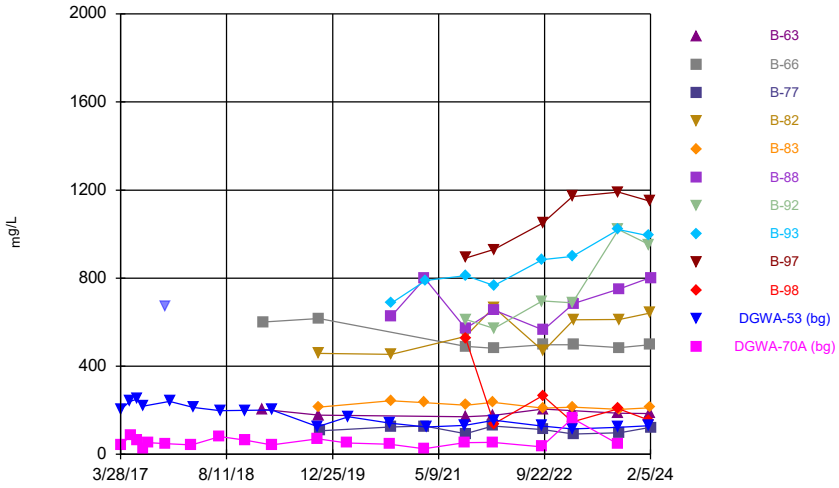
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

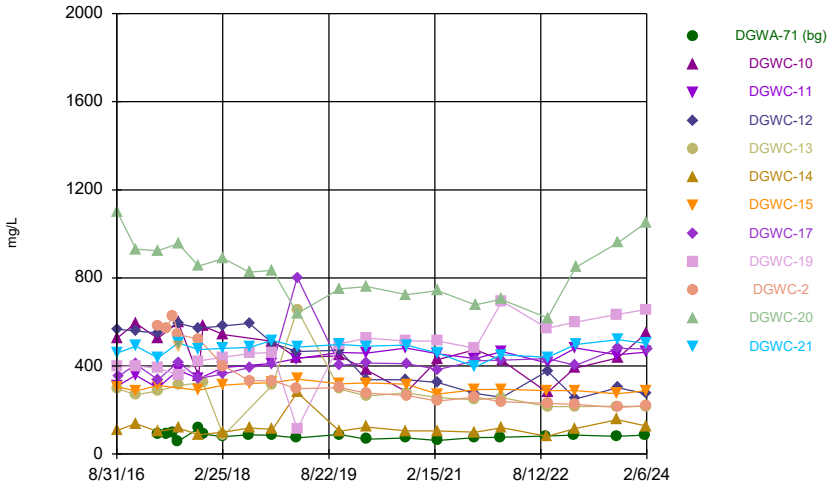
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

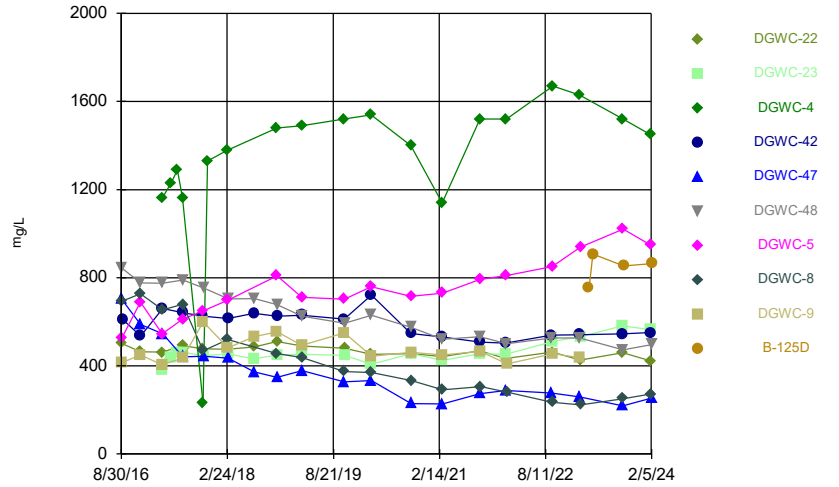
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:07 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0013 (J)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.00029 (J)
9/9/2021									
9/10/2021			<0.003						
9/13/2021	<0.003	0.001 (J)			<0.003	<0.003			
9/14/2021				<0.003			<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									<0.003
2/2/2023	<0.003		<0.003						
2/3/2023		<0.003		<0.003					<0.003
2/6/2023						<0.003			
2/7/2023					<0.003		<0.003	<0.003	
9/6/2023	<0.003								
9/7/2023									
9/8/2023		<0.003							
9/11/2023			<0.003		<0.003				
9/12/2023						<0.003			<0.003
9/13/2023				<0.003			<0.003	0.0016 (J)	
1/31/2024	<0.003								
2/1/2024						<0.003	<0.003		
2/2/2024		0.00062 (J)	0.001 (J)		<0.003				
2/5/2024				<0.003				<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.003
9/11/2019			<0.003
10/21/2019			<0.003
8/13/2020			<0.003
8/17/2020		<0.003	
9/24/2020			0.00046 (J)
9/25/2020			
9/28/2020		<0.003	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.003	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.003
4/15/2021			
9/9/2021			<0.003
9/10/2021			
9/13/2021		<0.003	
9/14/2021			
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			<0.003
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.003	
9/19/2022			
2/2/2023			<0.003
2/3/2023			
2/6/2023	<0.003		
2/7/2023		<0.003	
9/6/2023			
9/7/2023	<0.003		<0.003
9/8/2023		<0.003	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.0006 (J)		<0.003
2/2/2024			
2/5/2024		<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.003								
1/30/2019		<0.003							
8/27/2019									
8/28/2019									
9/11/2019	<0.003								
9/12/2019		<0.003							
9/18/2019			<0.003						
9/23/2019				<0.003					
10/15/2019									
10/16/2019									
10/21/2019		<0.003		<0.003	<0.003				
10/22/2019	0.00066 (J)								
10/24/2019			<0.003						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			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			0.00036 (J)						
9/25/2020					<0.003	<0.003			
9/28/2020				<0.003				0.0014 (J)	
3/1/2021									
3/4/2021			0.00063 (J)		<0.003				
3/5/2021						<0.003			
3/9/2021								<0.003	
3/12/2021									
9/9/2021									
9/13/2021						<0.003			
9/14/2021	<0.003	<0.003	<0.003	<0.003					
9/15/2021							<0.003	<0.003	<0.003
9/16/2021					<0.003				
1/18/2022									
1/20/2022	<0.003		<0.003						
1/21/2022					<0.003				
1/25/2022		<0.003		<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.003	<0.003	<0.003
1/27/2022						<0.003			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.003	0.00096 (J)	
9/13/2022			<0.003		<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									<0.003
2/2/2023	<0.003								
2/3/2023					<0.003				
2/6/2023			<0.003						
2/7/2023		<0.003		<0.003		<0.003			
9/6/2023							<0.003	<0.003	<0.003
9/7/2023	<0.003								
9/11/2023		<0.003		<0.003					
9/12/2023			<0.003		<0.003	<0.003			
1/30/2024							<0.003	<0.003	
1/31/2024									<0.003
2/1/2024	<0.003	<0.003		<0.003	<0.003				
2/5/2024			<0.003			<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.003	<0.003
5/11/2017		<0.003	
5/15/2017			<0.003
6/15/2017		0.0006 (J)	<0.003
7/11/2017			<0.003
7/12/2017		<0.003	
8/8/2017			<0.003
10/24/2017		<0.003	<0.003
2/27/2018			<0.003
3/8/2018		<0.003	
7/10/2018			<0.003
7/12/2018		<0.003	
11/6/2018			<0.003
11/7/2018		<0.003	
1/28/2019			
1/30/2019			
8/27/2019			<0.003
8/28/2019		<0.003	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.003
10/16/2019		<0.003	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.003
3/9/2020		<0.003	
8/11/2020			0.0013 (J)
8/13/2020		0.0003 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.003	<0.003
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.003
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.003	
9/9/2021		<0.003	0.0015 (J)
9/13/2021			
9/14/2021			
9/15/2021	<0.003		
9/16/2021			
1/18/2022			<0.003
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.003		
1/27/2022			
1/28/2022		<0.003	
9/7/2022			<0.003
9/8/2022		<0.003	
9/12/2022			
9/13/2022	<0.003		
9/14/2022			
9/16/2022			
1/31/2023	0.001 (J)		<0.003
2/1/2023		<0.003	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.003		<0.003
9/7/2023		<0.003	
9/11/2023			
9/12/2023			
1/30/2024	<0.003	<0.003	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.003	<0.003			<0.003			
9/1/2016				<0.003					<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		<0.003
12/8/2016								<0.003	
3/28/2017	0.0007 (J)								
3/29/2017		<0.003	<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								
6/15/2017									
6/16/2017	0.0007 (J)								
7/11/2017	<0.003								
7/12/2017		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/24/2017	<0.003	<0.003	<0.003						
10/25/2017				<0.003		<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			
2/28/2018					<0.003		<0.003	<0.003	<0.003
7/10/2018	<0.003								
7/11/2018				<0.003		<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	<0.003
8/27/2019	<0.003	<0.003	<0.003	<0.003		<0.003		<0.003	
8/28/2019					<0.003		0.00033 (J)		<0.003
8/29/2019									
9/17/2019				<0.003					
10/15/2019	<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								<0.003	
3/2/2020	0.0018 (J)		<0.003	0.0003 (J)					
3/3/2020		<0.003			<0.003	<0.003	<0.003		<0.003
3/4/2020								<0.003	
8/11/2020	0.0018 (J)	<0.003	<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		0.0011 (J)			0.00036 (J)
9/23/2020					<0.003		<0.003		
9/24/2020		<0.003						0.00045 (J)	
3/1/2021	0.0019 (J)								
3/2/2021			<0.003		<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			<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
9/10/2021		<0.003							
9/13/2021								<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			<0.003
1/26/2022		0.0021 (J)							
9/7/2022	<0.003								
9/13/2022						<0.003	<0.003		
9/14/2022								<0.003	<0.003
9/15/2022		<0.003	<0.003	<0.003	<0.003				
9/20/2022									
1/31/2023	<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	<0.003
2/7/2023									
9/6/2023	0.0045								
9/8/2023			<0.003		<0.003	<0.003	<0.003		0.0013 (J)
9/11/2023		<0.003		<0.003					
9/13/2023								<0.003	
1/30/2024	<0.003								
1/31/2024					<0.003				
2/1/2024			<0.003						<0.003
2/2/2024		<0.003		<0.003					
2/5/2024						<0.003	<0.003		
2/6/2024								<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.003	<0.003
9/6/2016			
9/7/2016			
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			
6/15/2017	0.0006 (J)		
6/16/2017			
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
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
7/10/2018			
7/11/2018	<0.003	<0.003	0.0013 (J)
11/6/2018	<0.003		
11/7/2018		<0.003	<0.003
8/27/2019	<0.003		
8/28/2019			
8/29/2019		<0.003	<0.003
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.003	<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		
8/12/2020			
8/13/2020		<0.003	
8/14/2020			<0.003
9/22/2020		<0.003	
9/23/2020	<0.003		
9/24/2020			<0.003
3/1/2021			
3/2/2021	<0.003	<0.003	
3/3/2021			<0.003
3/4/2021			
9/8/2021			
9/9/2021	<0.003		<0.003
9/10/2021		<0.003	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.003		<0.003
1/21/2022		<0.003	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.003	<0.003
9/20/2022	<0.003		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.003		
2/7/2023		<0.003	<0.003
9/6/2023			
9/8/2023			
9/11/2023		0.0018 (J)	<0.003
9/13/2023	<0.003		
1/30/2024			
1/31/2024			<0.003
2/1/2024	<0.003	<0.003	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.003	<0.003
8/31/2016							<0.003		
9/1/2016					<0.003	<0.003			
9/2/2016	<0.003								
9/7/2016				<0.003					
12/6/2016							<0.003	<0.003	<0.003
12/8/2016	<0.003			<0.003	<0.003	<0.003			
3/28/2017			<0.003				<0.003		<0.003
3/29/2017	<0.003							<0.003	
3/30/2017		<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	<0.003
7/12/2017		<0.003							
7/13/2017	<0.003			<0.003	<0.003	<0.003			
10/24/2017			<0.003					<0.003	<0.003
10/25/2017	<0.003			<0.003			<0.003		
10/26/2017		<0.003			<0.003	<0.003			
2/27/2018			<0.003				<0.003	<0.003	<0.003
2/28/2018	<0.003			<0.003					
3/1/2018		<0.003			<0.003				
3/2/2018						<0.003			
7/11/2018				<0.003					<0.003
7/12/2018	<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			
11/8/2018		<0.003							
8/27/2019			<0.003				<0.003		<0.003
8/28/2019				<0.003				<0.003	
8/29/2019	<0.003	<0.003			<0.003	<0.003			
10/15/2019			<0.003						
10/16/2019							<0.003	<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									<0.003
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								
9/22/2020			<0.003	<0.003			<0.003		<0.003
9/23/2020					0.0012 (J)	0.00039 (J)		<0.003	
9/24/2020	<0.003	<0.003							
3/1/2021			0.00049 (J)						
3/2/2021							0.0015 (J)	0.00046 (J)	<0.003
3/3/2021	<0.003	<0.003		<0.003	<0.003	<0.003			
9/9/2021		<0.003							
9/10/2021	<0.003		<0.003		<0.003	0.0018 (J)	<0.003		<0.003
9/13/2021				<0.003				<0.003	
1/20/2022	<0.003	<0.003		<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.003				
1/24/2022			<0.003			<0.003	<0.003		
1/25/2022								<0.003	
1/26/2022									<0.003
9/13/2022				<0.003	<0.003	<0.003			
9/14/2022							<0.003		
9/15/2022								<0.003	
9/16/2022	<0.003								
9/19/2022			<0.003						<0.003
9/20/2022		<0.003							
2/1/2023				<0.003					
2/3/2023			<0.003		<0.003	<0.003			<0.003
2/6/2023	<0.003	<0.003							
2/7/2023							<0.003	<0.003	
9/11/2023	<0.003	<0.003							
9/12/2023					<0.003			<0.003	
9/13/2023			<0.003	<0.003		<0.003	<0.003		
9/14/2023									
1/30/2024				<0.003					
1/31/2024	<0.003	<0.003							
2/1/2024			0.0028 (J)				0.00068 (J)	<0.003	
2/5/2024					<0.003	<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.003
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
7/23/2020	<0.005								
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
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	
3/3/2021									
3/4/2021			<0.005	0.0025 (J)	<0.005	<0.005	<0.005		
3/5/2021		0.0017 (J)						0.0023 (J)	
3/8/2021	<0.005								
3/12/2021									
4/15/2021									<0.005
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	<0.005			<0.005	<0.005			
9/14/2021				0.0019 (J)			<0.005	0.0029 (J)	<0.005
1/20/2022									0.0016 (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									<0.005
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					<0.005
2/6/2023						<0.005			
2/7/2023					<0.005		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			<0.005
9/13/2023				<0.005			<0.005	<0.005	
1/31/2024	<0.005								
2/1/2024						<0.005	0.008		
2/2/2024		<0.005	<0.005		<0.005				
2/5/2024				0.00093 (J)				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
7/23/2020			
8/13/2020			<0.005
8/17/2020		0.0032 (J)	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.0047 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.003 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.0031 (J)	
9/14/2021			
1/20/2022			0.0033 (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			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.005	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		0.005 (J)	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		0.0043 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.005		<0.005
2/2/2024			
2/5/2024		0.0042 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		<0.005							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018		<0.005							
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		<0.005	<0.005				
10/22/2019	<0.005								
10/24/2019			0.0029 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.002 (J)						
8/14/2020					<0.005				
8/17/2020				<0.005		<0.005			
8/19/2020								0.0013 (J)	
9/22/2020									
9/24/2020			0.0025 (J)						
9/25/2020					<0.005	<0.005			
9/28/2020				<0.005				0.0027 (J)	
3/1/2021									
3/4/2021			0.002 (J)		<0.005				
3/5/2021						<0.005			
3/9/2021								<0.005	
3/12/2021		<0.005		<0.005					
9/9/2021									
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0012 (J)	<0.005	<0.005
9/16/2021					<0.005				
1/18/2022									
1/20/2022	0.0022 (J)		0.003 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/21/2022					0.0014 (J)				
1/25/2022		<0.005		0.003 (J)					
1/26/2022							0.0015 (J)	0.002 (J)	0.0014 (J)
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.005	<0.005	
9/13/2022			<0.005		<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									<0.005
2/2/2023	<0.005								
2/3/2023					<0.005				
2/6/2023			<0.005						
2/7/2023		<0.005		0.004 (J)		<0.005			
9/6/2023							<0.005	<0.005	<0.005
9/7/2023	<0.005								
9/11/2023		<0.005		<0.005					
9/12/2023			<0.005		<0.005	<0.005			
1/30/2024							0.0021 (J)	<0.005	
1/31/2024									<0.005
2/1/2024	<0.005	<0.005		<0.005	<0.005				
2/5/2024			0.0014 (J)			<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
11/22/2016			
3/28/2017		0.0005 (J)	<0.005
5/11/2017		0.0005 (J)	
5/15/2017			<0.005
6/15/2017		<0.005	<0.005
7/11/2017			<0.005
7/12/2017		<0.005	
8/8/2017			<0.005
10/24/2017		<0.005	<0.005
2/19/2018			
2/27/2018			<0.005
3/8/2018		<0.005	
7/10/2018			<0.005
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005 (J)	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.00052 (J)
10/16/2019		0.0018 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.005
3/9/2020		0.00068 (J)	
8/11/2020			<0.005
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.00093 (J)	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005		
9/16/2021			
1/18/2022			0.0046 (J)
1/20/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/21/2022			
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		0.0024 (J)	
9/7/2022			0.0024 (J)
9/8/2022		0.0029 (J)	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		0.0029 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	<0.005	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0058	<0.005			<0.005			
9/1/2016				<0.005					0.0022 (J)
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		<0.005
12/8/2016								<0.005	
3/28/2017	<0.005								
3/29/2017		0.0055	<0.005	<0.005		<0.005			0.002 (J)
3/30/2017					<0.005		0.0006 (J)	0.0008 (J)	
5/11/2017									
5/12/2017	0.0004 (J)								
6/15/2017									
6/16/2017	<0.005								
7/11/2017	<0.005								
7/12/2017		0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 (J)
10/24/2017	<0.005	0.0058	<0.005						
10/25/2017				0.0006 (J)		<0.005	<0.005	0.0007 (J)	0.0022 (J)
11/15/2017					<0.005				
2/27/2018	<0.005	0.0105	<0.005	<0.005		<0.005			
2/28/2018					<0.005		<0.005	0.00073 (J)	0.0028 (J)
7/10/2018	<0.005								
7/11/2018				<0.005		<0.005	<0.005	<0.005	0.0009 (J)
11/6/2018	<0.005	<0.005 (J)	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005 (J)
8/27/2019	<0.005	0.0024 (J)	<0.005	<0.005		<0.005		<0.005	
8/28/2019					<0.005		<0.005		0.00049 (J)
8/29/2019									
9/17/2019				<0.005					
10/15/2019	0.00071 (J)	0.0078	<0.005	0.00063 (J)					
10/16/2019					<0.005	0.00039 (J)			0.00046 (J)
10/17/2019							0.00064 (J)		
10/18/2019								0.0012 (J)	
3/2/2020	<0.005		<0.005	<0.005					
3/3/2020		0.0025 (J)			<0.005	<0.005	<0.005		<0.005
3/4/2020								0.0014 (J)	
8/11/2020	<0.005	0.0028 (J)	<0.005	<0.005		<0.005			0.0014 (J)
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			0.0017 (J)
9/23/2020					<0.005		<0.005		
9/24/2020		0.0078						0.0011 (J)	
3/1/2021	<0.005								
3/2/2021			<0.005		<0.005	<0.005	<0.005		0.0013 (J)
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		0.0027 (J)
9/10/2021		0.0076							
9/13/2021								<0.005	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	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			0.0014 (J)
1/26/2022		0.0043 (J)							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								<0.005	<0.005
9/15/2022		0.0024 (J)	<0.005	<0.005	<0.005				
9/20/2022									
1/31/2023	<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	<0.005
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		<0.005	<0.005	<0.005		<0.005
9/11/2023		0.0065		<0.005					
9/13/2023								<0.005	
1/30/2024	<0.005								
1/31/2024					<0.005				
2/1/2024			<0.005						0.00088 (J)
2/2/2024		0.0063		<0.005					
2/5/2024						<0.005	<0.005		
2/6/2024								<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0159	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0037 (J)	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.015	
3/30/2017	<0.005		<0.005
5/11/2017	<0.005		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		0.0121	<0.005
10/24/2017	<0.005		
10/25/2017		0.0135	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		0.0177	<0.005
7/10/2018			
7/11/2018	<0.005	0.0055	<0.005
11/6/2018	<0.005		
11/7/2018		0.0054	<0.005
8/27/2019	0.00099 (J)		
8/28/2019			
8/29/2019		0.0064	<0.005
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.005	0.0094	<0.005
10/18/2019			
3/2/2020			
3/3/2020	0.0025 (J)		<0.005
3/4/2020		0.029	
8/11/2020	<0.005		
8/12/2020			
8/13/2020		0.014	
8/14/2020			<0.005
9/22/2020		0.0063	
9/23/2020	<0.005		
9/24/2020			<0.005
3/1/2021			
3/2/2021	<0.005	0.019	
3/3/2021			<0.005
3/4/2021			
9/8/2021			
9/9/2021	<0.005		<0.005
9/10/2021		0.0083	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.0023 (J)		<0.005
1/21/2022		0.015	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.016	<0.005
9/20/2022	<0.005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005		
2/7/2023		0.023	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.029	<0.005
9/13/2023	<0.005		
1/30/2024			
1/31/2024			<0.005
2/1/2024	<0.005	0.025	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	<0.005								
9/7/2016				<0.005					
12/6/2016							0.0032 (J)	<0.005	<0.005
12/8/2016	<0.005			<0.005	0.0032 (J)	<0.005			
3/28/2017			0.0005 (J)				0.0385		0.0243
3/29/2017	<0.005							0.001 (J)	
3/30/2017		<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)	0.0194
7/12/2017		<0.005							
7/13/2017	<0.005			<0.005	0.0018 (J)	0.0012 (J)			
10/24/2017			<0.005					0.0015 (J)	0.0249
10/25/2017	<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)	0.0405
2/28/2018	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					0.016
7/12/2018	<0.005	<0.005			0.0023 (J)	0.0015 (J)			
11/6/2018			<0.005				<0.005	<0.005	0.017
11/7/2018	<0.005			<0.005	<0.005 (J)	<0.005			
11/8/2018		<0.005							
8/27/2019			<0.005				<0.005		0.021
8/28/2019				<0.005				<0.005	
8/29/2019	<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	0.0013 (J)				0.033
10/18/2019	<0.005	<0.005				0.00079 (J)			
3/2/2020			<0.005				0.0052		
3/3/2020	<0.005							0.00096 (J)	0.015
3/4/2020		<0.005		<0.005	0.0012 (J)	0.0006 (J)			
8/11/2020									0.022
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								
9/22/2020			<0.005	<0.005			0.0062		0.04
9/23/2020					<0.005	<0.005		<0.005	
9/24/2020	<0.005	<0.005							
3/1/2021			<0.005						
3/2/2021							0.0013 (J)	<0.005	0.021
3/3/2021	<0.005	<0.005		<0.005	<0.005	<0.005			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		0.0016 (J)	<0.005	0.0031 (J)		0.031
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
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									0.012
9/13/2022				<0.005	<0.005	<0.005			
9/14/2022							0.0038 (J)		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						0.016
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		<0.005	<0.005			0.014
2/6/2023	<0.005	<0.005							
2/7/2023							0.0036 (J)	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					<0.005			<0.005	
9/13/2023			<0.005	<0.005		<0.005	<0.005		
9/14/2023									
1/30/2024				<0.005					
1/31/2024	<0.005	<0.005							
2/1/2024			<0.005				<0.005	<0.005	
2/5/2024					0.001 (J)	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.015								
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									0.044
9/9/2021									
9/10/2021			0.02						
9/13/2021	0.021	0.076			0.02	0.087			
9/14/2021				0.021			0.06	0.043	0.031
1/20/2022									0.025
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									0.023
2/2/2023	0.098		0.02						
2/3/2023		0.048		0.017					0.021
2/6/2023						0.049			
2/7/2023					0.022		0.051	0.028	
9/6/2023	0.021								
9/7/2023									
9/8/2023		0.075							
9/11/2023			0.019		0.023				
9/12/2023						0.046			0.021
9/13/2023				0.02			0.051	0.031	
1/31/2024	0.019								
2/1/2024						0.04	0.048		
2/2/2024		0.071	0.019		0.023				
2/5/2024				0.018				0.025	0.033

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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
9/25/2020			
9/28/2020		0.026	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.028	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.027
4/15/2021			
9/9/2021			0.021
9/10/2021			
9/13/2021		0.026	
9/14/2021			
1/20/2022			0.021
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			0.018
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.028	
9/19/2022			
2/2/2023			0.019
2/3/2023			
2/6/2023	0.04		
2/7/2023		0.027	
9/6/2023			
9/7/2023	0.044		0.015
9/8/2023		0.028	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.052		0.017
2/2/2024			
2/5/2024		0.026	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.028								
1/30/2019		0.016							
8/27/2019									
8/28/2019									
9/11/2019	0.021								
9/12/2019		0.017							
9/18/2019			0.086						
9/23/2019				0.031					
10/15/2019									
10/16/2019									
10/21/2019		0.018		0.03	0.034				
10/22/2019	0.021								
10/24/2019			0.1						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			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			0.12						
9/25/2020					0.027	0.021			
9/28/2020				0.023				0.017	
3/1/2021									
3/4/2021			0.11		0.032				
3/5/2021						0.022			
3/9/2021								0.016 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.016			
9/14/2021	0.026	0.018	0.12	0.022					
9/15/2021							0.015	0.016	0.02
9/16/2021					0.03				
1/18/2022									
1/20/2022	0.02		0.13						
1/21/2022					0.024				
1/25/2022		0.021		0.026					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.016	0.021	0.02
1/27/2022						0.018			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.017	0.015	
9/13/2022			0.089		0.025				0.02
9/14/2022	0.032								
9/16/2022		0.02		0.02		0.016			
1/31/2023							0.015	0.015	
2/1/2023									0.021
2/2/2023	0.056								
2/3/2023					0.024				
2/6/2023			0.11						
2/7/2023		0.023		0.023		0.017			
9/6/2023							0.013	0.017	0.02
9/7/2023	0.025								
9/11/2023		0.028		0.024					
9/12/2023			0.12		0.028	0.017			
1/30/2024							0.018	0.014	
1/31/2024									0.022
2/1/2024	0.062	0.025		0.024	0.027				
2/5/2024			0.11			0.015			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.134	0.0166
5/11/2017		0.126	
5/15/2017			0.0181
6/15/2017		0.14	0.0277
7/11/2017			0.0306
7/12/2017		0.173	
8/8/2017			0.0277
10/24/2017		0.109	0.0333
2/27/2018			0.0341
3/8/2018		0.19	
7/10/2018			0.037
7/12/2018		0.18	
11/6/2018			0.037
11/7/2018		0.15	
1/28/2019			
1/30/2019			
8/27/2019			0.037
8/28/2019		0.087	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.034
10/16/2019		0.077	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.035
3/9/2020		0.099	
8/11/2020			0.041
8/13/2020		0.046	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.07	0.038
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.042
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.076	
9/9/2021		0.099	0.038
9/13/2021			
9/14/2021			
9/15/2021	0.082		
9/16/2021			
1/18/2022			0.043
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.035		
1/27/2022			
1/28/2022		0.068	
9/7/2022			0.039
9/8/2022		0.077	
9/12/2022			
9/13/2022	0.092		
9/14/2022			
9/16/2022			
1/31/2023	0.041		0.041
2/1/2023		0.089	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.051		0.041
9/7/2023		0.12	
9/11/2023			
9/12/2023			
1/30/2024	0.048	0.096	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0321	0.0545			0.0576			
9/1/2016				0.0254					0.0214
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		0.0191
12/8/2016								0.062	
3/28/2017	0.0378								
3/29/2017		0.0335	0.0565	0.0268		0.0693			0.0209
3/30/2017					0.0308		0.0495	0.0615	
5/11/2017									
5/12/2017	0.04								
6/15/2017									
6/16/2017	0.0369								
7/11/2017	0.0362								
7/12/2017		0.0314	0.0572	0.0262	0.0291	0.0585	0.0517	0.0532	0.0212
10/24/2017	0.0313	0.0317	0.0596						
10/25/2017				0.0268		0.0563	0.0474	0.0544	0.021
11/15/2017					0.0309				
2/27/2018	0.0287	0.028	0.0672	0.0255		0.0591			
2/28/2018					<0.01		0.0455	0.0527	0.0213
7/10/2018	0.027								
7/11/2018				0.026		0.061	0.05	0.053	0.023
11/6/2018	0.026	0.025	0.074						
11/7/2018				0.028	0.034	0.055	0.042	0.044	0.024
8/27/2019	0.027	0.021	0.071	0.024		0.059		0.05	
8/28/2019					0.033		0.047		0.026
8/29/2019									
9/17/2019				0.02					
10/15/2019	0.024	0.024	0.064	0.02					
10/16/2019					0.034	0.059			0.024
10/17/2019							0.046		
10/18/2019								0.045	
3/2/2020	0.026		0.071	0.04					
3/3/2020		0.024			0.035	0.064	0.05		0.028
3/4/2020								0.044	
8/11/2020	0.026	0.024	0.064	0.028		0.061			0.027
8/12/2020					0.032				
8/13/2020							0.06		
8/14/2020								0.046	
9/22/2020	0.024		0.058	0.036		0.06			0.026
9/23/2020					0.03		0.043		
9/24/2020		0.021						0.033	
3/1/2021	0.028								
3/2/2021			0.052		0.03	0.064	0.043		0.026
3/3/2021				0.035				0.036	
3/4/2021		0.025							
9/8/2021	0.025								
9/9/2021			0.054	0.04	0.027	0.059	0.041		0.025
9/10/2021		0.019							
9/13/2021								0.031	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	0.029								
1/20/2022									
1/21/2022									
1/24/2022							0.041	0.031	
1/25/2022			0.047	0.054	0.028	0.064			0.026
1/26/2022		0.022							
9/7/2022	0.025								
9/13/2022						0.063	0.042		
9/14/2022								0.031	0.027
9/15/2022		0.018	0.047	0.035	0.027				
9/20/2022									
1/31/2023	0.028								
2/1/2023					0.023	0.057			
2/2/2023		0.02					0.039		
2/6/2023			0.039	0.047				0.029	0.025
2/7/2023									
9/6/2023	0.03								
9/8/2023			0.034		0.022	0.057	0.035		0.022
9/11/2023		0.019		0.058					
9/13/2023								0.031	
1/30/2024	0.029								
1/31/2024					0.024				
2/1/2024			0.038						0.024
2/2/2024		0.018 (J)		0.054					
2/5/2024						0.057	0.037		
2/6/2024								0.027	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0097 (J)	0.0252
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0087 (J)	
12/8/2016			0.0262
3/28/2017			
3/29/2017		0.0094 (J)	
3/30/2017	0.0232		0.0272
5/11/2017	0.0231		
5/12/2017			
6/15/2017	0.0223		
6/16/2017			
7/11/2017	0.0201		
7/12/2017		0.0099 (J)	0.0276
10/24/2017	0.0206		
10/25/2017		0.0096 (J)	0.0262
11/15/2017			
2/27/2018	0.0207		
2/28/2018		<0.01	0.027
7/10/2018			
7/11/2018	0.022	0.01	0.027
11/6/2018	0.021		
11/7/2018		0.011	0.024
8/27/2019	0.023		
8/28/2019			
8/29/2019		0.018	0.027
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.022	0.015	0.027
10/18/2019			
3/2/2020			
3/3/2020	0.022		0.027
3/4/2020		0.017	
8/11/2020	0.022		
8/12/2020			
8/13/2020		0.019	
8/14/2020			0.027
9/22/2020		0.011	
9/23/2020	0.023		
9/24/2020			0.024
3/1/2021			
3/2/2021	0.023	0.021	
3/3/2021			0.024
3/4/2021			
9/8/2021			
9/9/2021	0.022		0.023
9/10/2021		0.0098	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.022		0.024
1/21/2022		0.018	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.017	0.024
9/20/2022	0.02		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.02		
2/7/2023		0.019	0.024
9/6/2023			
9/8/2023			
9/11/2023		0.014	0.024
9/13/2023	0.023		
1/30/2024			
1/31/2024			0.024
2/1/2024	0.024	0.015 (J)	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.0397								
9/7/2016				0.0194					
12/6/2016							0.0186	0.0431	0.0138
12/8/2016	0.0408			0.0189	0.0247	0.0155			
3/28/2017			0.0363				0.0187		0.017
3/29/2017	0.0417							0.044	
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)	0.0389	0.0154 (J)
7/12/2017		0.0186							
7/13/2017	0.0376			0.021	0.0165	0.014			
10/24/2017			0.0351					0.0369	0.0148
10/25/2017	0.0384			0.0196			0.0175		
10/26/2017		0.0176			0.0152	0.0117			
2/27/2018			0.0364				0.0172	0.0346	0.0148
2/28/2018	0.0353			0.0171					
3/1/2018		0.0164			0.0164				
3/2/2018						0.0131			
7/11/2018				0.02					0.017
7/12/2018	0.036	0.022			0.015	0.013			
11/6/2018			0.035				0.016	0.027	0.015
11/7/2018	0.031			0.017	0.02	0.014			
11/8/2018		0.022							
8/27/2019			0.036				0.017		0.016
8/28/2019				0.018				0.025	
8/29/2019	0.031	0.025			0.018	0.014			
10/15/2019			0.033						
10/16/2019							0.02	0.027	
10/17/2019				0.018	0.019				0.015
10/18/2019	0.032	0.019				0.014			
3/2/2020			0.036				0.018		
3/3/2020	0.035							0.026	0.016
3/4/2020		0.032		0.015	0.017	0.014			
8/11/2020									0.016
8/12/2020			0.036		0.016		0.017	0.034	
8/13/2020		0.027		0.027		0.013			
8/14/2020	0.035								
9/22/2020			0.03	0.016			0.017		0.015
9/23/2020					0.014	0.013		0.025	
9/24/2020	0.031	0.02							
3/1/2021			0.039						
3/2/2021							0.017	0.029	0.017
3/3/2021	0.031	0.019		0.015	0.02	0.014			
9/9/2021		0.021							
9/10/2021	0.027		0.032		0.021	0.013	0.015		0.014
9/13/2021				0.014				0.019	
1/20/2022	0.029	0.024		0.014					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:08 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.017				
1/24/2022			0.035			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	
9/16/2022	0.029								
9/19/2022			0.032						0.017
9/20/2022		0.019							
2/1/2023				0.015					
2/3/2023			0.034		0.019	0.013			0.019
2/6/2023	0.027	0.023							
2/7/2023							0.019	0.025	
9/11/2023	0.029	0.022							
9/12/2023					0.023			0.021	
9/13/2023			0.034	0.015		0.015	0.016		
9/14/2023									
1/30/2024				0.015					
1/31/2024	0.03	0.023							
2/1/2024			0.032				0.016	0.02	
2/5/2024					0.018	0.013			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.058
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.05

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0004 (J)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.00085
9/9/2021									
9/10/2021			0.0011						
9/13/2021	0.00053	6.7E-05 (J)			0.00013 (J)	<0.0005			
9/14/2021				0.0011			<0.0005	<0.0005	0.00087
1/20/2022									0.0011
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									0.0011
2/2/2023	<0.0005		0.00091						
2/3/2023		6.3E-05 (J)		0.0016					0.001
2/6/2023						<0.0005			
2/7/2023					8.4E-05 (J)		<0.0005	<0.0005	
9/6/2023	0.00054								
9/7/2023									
9/8/2023		<0.0005							
9/11/2023			0.00074		6.6E-05 (J)				
9/12/2023						<0.0005			0.00066
9/13/2023				0.0016			<0.0005	<0.0005	
1/31/2024	0.00047 (J)								
2/1/2024						<0.0005	0.00058		
2/2/2024		<0.0005	0.00081		0.0001 (J)				
2/5/2024				0.0014				<0.0005	0.00089

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
10/6/2016			9E-05 (J)
1/30/2019			<0.0025
9/11/2019			0.00012 (J)
10/21/2019			7.8E-05 (J)
8/13/2020			0.00011 (J)
8/17/2020		0.0013 (J)	
9/24/2020			0.00013 (J)
9/25/2020			
9/28/2020		0.0012 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0011	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0025
4/15/2021			
9/9/2021			0.00014 (J)
9/10/2021			
9/13/2021		0.0012	
9/14/2021			
1/20/2022			0.00015 (J)
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			0.00013 (J)
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0013	
9/19/2022			
2/2/2023			0.00012 (J)
2/3/2023			
2/6/2023	0.00034 (J)		
2/7/2023		0.0012	
9/6/2023			
9/7/2023	0.00049 (J)		0.00011 (J)
9/8/2023		0.0013	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.00045 (J)		0.00015 (J)
2/2/2024			
2/5/2024		0.0013	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
10/7/2016	0.0004 (J)								
11/22/2016		<0.0005							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018	0.00049 (J)	<0.0005							
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.003								
1/30/2019		<0.0005							
8/27/2019									
8/28/2019									
9/11/2019	0.00035 (J)								
9/12/2019		<0.0005							
9/18/2019			0.00011 (J)						
9/23/2019				0.0015 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.0005		0.0011 (J)	0.00039 (J)				
10/22/2019	0.0003 (J)								
10/24/2019			<0.0005						
12/18/2019							0.022		
12/19/2019								0.0069	
2/17/2020									<0.003
2/27/2020									0.0019 (J)
3/2/2020									
3/9/2020									
8/11/2020									
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	
9/22/2020									
9/24/2020			5.3E-05 (J)						
9/25/2020					0.00028 (J)	0.00063 (J)			
9/28/2020				0.0015 (J)				0.015	
3/1/2021									
3/4/2021			5.7E-05 (J)		0.00037 (J)				
3/5/2021						0.005			
3/9/2021							0.017	0.017	0.0019
3/12/2021									
3/15/2021									
9/9/2021									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/13/2021						0.001			
9/14/2021	0.00042 (J)	<0.0005	<0.0005	0.0017					
9/15/2021							0.014	0.015	0.0016
9/16/2021					0.00028 (J)				
1/18/2022									
1/20/2022	0.00034 (J)		<0.0005						
1/21/2022					0.00039 (J)				
1/25/2022		<0.0005		0.0021					
1/26/2022							0.018	0.017	0.0017
1/27/2022						0.0019			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.017	0.017	
9/13/2022			0.00013 (J)		0.00044 (J)				0.0017
9/14/2022	0.00053								
9/16/2022		<0.0005		0.002		0.0013			
1/31/2023							0.017	0.016	
2/1/2023									0.0017
2/2/2023	0.00028 (J)								
2/3/2023					0.00038 (J)				
2/6/2023			<0.0005						
2/7/2023		<0.0005		0.0018		0.0016			
9/6/2023							0.013	0.014	0.0016
9/7/2023	0.0005 (J)								
9/11/2023		<0.0005		0.0017					
9/12/2023			<0.0005		0.00038 (J)	0.0014			
1/30/2024							0.016	0.013	
1/31/2024									0.0017
2/1/2024	0.00035 (J)	<0.0005		0.0016	0.00038 (J)				
2/5/2024			<0.0005			0.0015			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
10/7/2016			
11/22/2016			
3/28/2017		<0.0005	<0.003
5/11/2017		<0.0005	
5/15/2017			<0.003
6/15/2017		<0.0005	<0.003
7/11/2017			<0.003
7/12/2017		<0.0005	
8/8/2017			<0.003
10/24/2017		<0.0005	<0.003
2/19/2018			
2/27/2018			<0.003
3/8/2018		<0.0005	
7/10/2018			9.5E-05 (J)
7/12/2018		<0.0005	
11/6/2018			0.00012 (J)
11/7/2018		<0.0005	
1/28/2019			
1/30/2019			
8/27/2019			7.9E-05 (J)
8/28/2019		<0.0005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.003
10/16/2019		<0.0005	
10/21/2019			
10/22/2019			
10/24/2019			
12/18/2019			
12/19/2019			
2/17/2020	<0.0005		
2/27/2020	<0.0005		
3/2/2020			9.6E-05 (J)
3/9/2020		<0.0005	
8/11/2020			0.00013 (J)
8/13/2020		<0.0005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0005	6.8E-05 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.00012 (J)
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0005	
3/15/2021	<0.0005		
9/9/2021		<0.0005	8.9E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/13/2021			
9/14/2021			
9/15/2021	0.00087		
9/16/2021			
1/18/2022			9.2E-05 (J)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.8E-05 (J)		
1/27/2022			
1/28/2022		<0.0005	
9/7/2022			8.4E-05 (J)
9/8/2022		<0.0005	
9/12/2022			
9/13/2022	6.2E-05 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.0005		9.4E-05 (J)
2/1/2023		0.00016 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.0005		0.00012 (J)
9/7/2023		<0.0005	
9/11/2023			
9/12/2023			
1/30/2024	<0.0005	<0.0005	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0046	<0.003			<0.0005			
9/1/2016				0.0002 (J)					0.0019 (J)
9/2/2016									
9/6/2016					<0.0005		<0.0005		
9/7/2016								0.0006 (J)	
12/6/2016		0.0048	<0.003			<0.0005			
12/7/2016				0.0002 (J)	<0.0005		<0.0005		0.0021 (J)
12/8/2016								0.0005 (J)	
3/28/2017	9E-05 (J)								
3/29/2017		0.0048	<0.003	0.0002 (J)		<0.0005			0.0017 (J)
3/30/2017					7E-05 (J)		<0.0005	0.0006 (J)	
5/11/2017									
5/12/2017	<0.003								
6/15/2017									
6/16/2017	0.0001 (J)								
7/11/2017	<0.003								
7/12/2017		0.0046	<0.003	0.0002 (J)	<0.0005	<0.0005	<0.0005	0.0005 (J)	0.0018 (J)
10/24/2017	<0.003	0.0048	<0.003						
10/25/2017				0.0002 (J)		<0.0005	<0.0005	0.0005 (J)	0.0019 (J)
11/15/2017					<0.0005				
2/27/2018	<0.003	0.0106	<0.003	<0.0005		<0.0005			
2/28/2018					<0.0005		<0.0005	<0.003	<0.003
7/10/2018	0.0009 (J)								
7/11/2018				0.0002 (J)		<0.0005	<0.0005	0.00058 (J)	0.002 (J)
11/6/2018	0.00013 (J)	0.012	<0.003 (J)						
11/7/2018				<0.003 (J)	<0.003 (J)	<0.0005	<0.003 (J)	<0.003	<0.003 (J)
8/27/2019	<0.003	0.0092	0.00014 (J)	0.00028 (J)		<0.0005		0.00066 (J)	
8/28/2019					<0.0005		<0.0005		0.0018 (J)
8/29/2019									
9/17/2019				0.00049 (J)					
10/15/2019	8.8E-05 (J)	0.01	0.00012 (J)	0.00016 (J)					
10/16/2019					<0.0005	<0.0005			0.0017 (J)
10/17/2019							<0.0005		
10/18/2019								0.00071 (J)	
3/2/2020	0.0001 (J)		0.00016 (J)	7.4E-05 (J)					
3/3/2020		0.0085			<0.0005	<0.0005	<0.0005		0.0021 (J)
3/4/2020								0.00062 (J)	
8/11/2020	0.00011 (J)	0.0066	0.00011 (J)	0.00024 (J)		<0.0005			0.002 (J)
8/12/2020					7.8E-05 (J)				
8/13/2020							0.00022 (J)		
8/14/2020								0.00064 (J)	
9/22/2020	6.9E-05 (J)		0.00015 (J)	0.00017 (J)		<0.0005			0.002 (J)
9/23/2020					6.8E-05 (J)		5.8E-05 (J)		
9/24/2020		0.0077						0.0006 (J)	
3/1/2021	0.00011 (J)								
3/2/2021			0.00014 (J)		7.3E-05 (J)	<0.0005	<0.0005		0.0019
3/3/2021				0.00011 (J)				0.00056	
3/4/2021		0.0086							
9/8/2021	9.1E-05 (J)								
9/9/2021			0.00013 (J)	8.4E-05 (J)	7E-05 (J)	<0.0005	<0.0005		0.0022
9/10/2021		0.0074							
9/13/2021								0.00052	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	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			0.0019
1/26/2022		0.0091							
9/7/2022	7.5E-05 (J)								
9/13/2022						<0.0005	<0.0005		
9/14/2022								0.00058	0.0018
9/15/2022		0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)				
9/20/2022									
1/31/2023	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	0.0017
2/7/2023									
9/6/2023	0.00011 (J)								
9/8/2023			0.0002 (J)		8.7E-05 (J)	<0.0005	<0.0005		0.0015
9/11/2023		0.0065		7.7E-05 (J)					
9/13/2023								0.00057	
1/30/2024	9.8E-05 (J)								
1/31/2024					<0.0005				
2/1/2024			0.00019 (J)						0.0015
2/2/2024		0.0069		<0.0005					
2/5/2024						<0.0005	<0.0005		
2/6/2024								0.00058	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0026 (J)	0.0001 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0035	
12/8/2016			0.0001 (J)
3/28/2017			
3/29/2017		0.0026 (J)	
3/30/2017	<0.0005		0.0002 (J)
5/11/2017	<0.0005		
5/12/2017			
6/15/2017	<0.0005		
6/16/2017			
7/11/2017	<0.0005		
7/12/2017		0.0025 (J)	0.0001 (J)
10/24/2017	<0.0005		
10/25/2017		0.0027 (J)	0.0002 (J)
11/15/2017			
2/27/2018	<0.0005		
2/28/2018		<0.003	<0.003
7/10/2018			
7/11/2018	<0.0005	0.0026 (J)	0.00016 (J)
11/6/2018	<0.0005		
11/7/2018		<0.003 (J)	<0.003 (J)
8/27/2019	<0.0005		
8/28/2019			
8/29/2019		0.005	0.00018 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.0005	0.0041	0.00015 (J)
10/18/2019			
3/2/2020			
3/3/2020	<0.0005		0.00019 (J)
3/4/2020		0.0089	
8/11/2020	<0.0005		
8/12/2020			
8/13/2020		0.0063	
8/14/2020			0.0002 (J)
9/22/2020		0.0027 (J)	
9/23/2020	<0.0005		
9/24/2020			0.00018 (J)
3/1/2021			
3/2/2021	<0.0005	0.0057	
3/3/2021			0.00017 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.0005		0.00018 (J)
9/10/2021		0.0024	
9/13/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0005		0.00019 (J)
1/21/2022		0.007	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0056	0.00018 (J)
9/20/2022	<0.0005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0005		
2/7/2023		0.0073	0.00016 (J)
9/6/2023			
9/8/2023			
9/11/2023		0.0067	0.00016 (J)
9/13/2023	<0.0005		
1/30/2024			
1/31/2024			0.00017 (J)
2/1/2024	<0.0005	0.0078	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.0002 (J)								
9/7/2016				0.0021 (J)					
12/6/2016							0.0064	0.0034	0.005
12/8/2016	0.0001 (J)			0.0023 (J)	0.0116	0.0086			
3/28/2017			0.0002 (J)				0.0049		0.0052
3/29/2017	0.0002 (J)							0.0031	
3/30/2017		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)	0.0048
7/12/2017		0.0004 (J)							
7/13/2017	0.0002 (J)			0.0025 (J)	0.0098	0.0106			
10/24/2017			0.0002 (J)					0.0042	0.0051
10/25/2017	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	0.0057
2/28/2018	<0.003			<0.003					
3/1/2018		<0.003			0.0146				
3/2/2018						0.0096			
7/11/2018				0.0029 (J)					0.0058
7/12/2018	0.00018 (J)	0.00035 (J)			0.013	0.0086			
11/6/2018			<0.003 (J)				0.01	<0.003 (J)	0.006
11/7/2018	<0.003 (J)			0.0031	0.014	0.0078			
11/8/2018		<0.003 (J)							
8/27/2019			0.00024 (J)				0.01		0.007
8/28/2019				0.0023 (J)				0.0021 (J)	
8/29/2019	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				0.0027 (J)	0.0093				0.0063
10/18/2019	0.00014 (J)	0.00038 (J)				0.0099			
3/2/2020			0.00025 (J)				0.0098		
3/3/2020	0.00017 (J)							0.0018 (J)	0.0048
3/4/2020		0.00077 (J)		0.0029 (J)	0.01	0.008			
8/11/2020									0.0062
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	0.00016 (J)								
9/22/2020			0.00019 (J)	0.0013 (J)			0.0081		0.0049
9/23/2020					0.0069	0.0072		0.0015 (J)	
9/24/2020	0.00017 (J)	0.00045 (J)							
3/1/2021			0.00027 (J)						
3/2/2021							0.0063	0.0012	0.005
3/3/2021	0.00013 (J)	0.0005		0.0023	0.0081	0.0068			
9/9/2021		0.0005 (J)							
9/10/2021	0.00014 (J)		0.00028 (J)		0.009	0.007	0.0075		0.0049
9/13/2021				0.0024				0.0015	
1/20/2022	0.00014 (J)	0.00046 (J)		0.002					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.01				
1/24/2022			0.00033 (J)			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	
9/16/2022	0.00023 (J)								
9/19/2022			0.00034 (J)						0.0047
9/20/2022		0.00037 (J)							
2/1/2023				0.0022					
2/3/2023			0.00033 (J)		0.0087	0.0062			0.0046
2/6/2023	0.0001 (J)	0.00038 (J)							
2/7/2023							0.0083	0.0007	
9/11/2023	0.00012 (J)	0.00035 (J)							
9/12/2023					0.0081			0.0014	
9/13/2023			0.0004 (J)	0.0024		0.0065	0.0084		
9/14/2023									
1/30/2024				0.0024					
1/31/2024	0.00013 (J)	0.00048 (J)							
2/1/2024			0.00039 (J)				0.0075	0.001	
2/5/2024					0.0074	0.0055			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.00013 (J)
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
10/6/2016									
1/30/2019									
9/11/2019									
10/21/2019									
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									1.9
9/9/2021									
9/10/2021			2.5						
9/13/2021	0.24	1.6			1.3	10.7			
9/14/2021				0.23			6.8	0.32	1.7
1/20/2022									1.9
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									1.7
2/2/2023	1.6		2.2						
2/3/2023		1.1		0.26					1.5
2/6/2023						10			
2/7/2023					0.95		6.4	0.16	
9/6/2023	0.24								
9/7/2023									
9/8/2023		1.3							
9/11/2023			1.8		0.81				
9/12/2023						11.3			1
9/13/2023				0.26			6.4	0.23	
1/31/2024	0.13								
2/1/2024						12	6		
2/2/2024		1.3	1.9		0.86				
2/5/2024				0.22				0.25	1.5

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
10/6/2016			0.053 (J)
1/30/2019			0.14
9/11/2019			0.068
10/21/2019			0.058
9/24/2020			0.074 (J)
9/25/2020			
9/28/2020		1.4	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		1.4	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.092 (J)
4/15/2021			
9/9/2021			0.068
9/10/2021			
9/13/2021		1.5	
9/14/2021			
1/20/2022			0.077
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			0.064
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		1.6	
9/19/2022			
2/2/2023			0.064
2/3/2023			
2/6/2023	0.26		
2/7/2023		1.5	
9/6/2023			
9/7/2023	0.26		0.071
9/8/2023		1.5	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.28		0.083
2/2/2024			
2/5/2024		1.6	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
11/22/2016		1.1							
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.44								
1/30/2019		2							
3/12/2019									
3/13/2019									
9/11/2019	0.26								
9/12/2019		2							
9/18/2019			0.3						
9/23/2019				1.4					
10/15/2019									
10/16/2019									
10/21/2019		1.9		1.2	0.28				
10/22/2019	0.22								
10/24/2019			0.31						
11/22/2019						3.6			
12/18/2019							3.9		
12/19/2019								3.3	
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			0.27						
9/25/2020					0.35	1.8			
9/28/2020				1.1				3	
3/1/2021									
3/4/2021			0.35		0.33				
3/5/2021						3.5			
3/9/2021							2.9	3.4	
3/12/2021									
9/9/2021									
9/13/2021						2			
9/14/2021	0.35	2.1	0.29	0.78					
9/15/2021							2.3	3.1	3.3
9/16/2021					0.3				
1/18/2022									
1/20/2022	0.21		0.28						
1/21/2022					0.32				
1/25/2022		2.3		0.7					
1/26/2022							2.7	3.6	3.7

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						2.7			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							2.9	3.6	
9/13/2022			0.33		0.33				3.7
9/14/2022	0.38								
9/16/2022		2.2		0.61		2.1			
1/31/2023							2.6	3.3	
2/1/2023									3.7
2/2/2023	0.47								
2/3/2023					0.31				
2/6/2023			0.31						
2/7/2023		2.1		0.53		2.3			
9/6/2023							3.2	3	3.7
9/7/2023	0.34								
9/11/2023		2.1		0.38					
9/12/2023			0.26		0.29	1.9			
1/30/2024							3.1	3	
1/31/2024									3.7
2/1/2024	0.45	2.1		0.36	0.39				
2/5/2024			0.28			2.4			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
11/22/2016			
3/28/2017		0.0612	0.0067 (J)
5/11/2017		0.0805	
5/15/2017			0.0073 (J)
6/15/2017		0.0725	<0.04
7/11/2017			<0.04
7/12/2017		0.0735	
8/8/2017			<0.04
10/24/2017		0.077	0.0082 (J)
2/27/2018			0.0062 (J)
3/8/2018		0.13 (J)	
7/10/2018			0.0077 (J)
7/12/2018		0.076	
11/6/2018			<0.04 (J)
11/7/2018		0.073	
1/28/2019			
1/30/2019			
3/12/2019			0.0073 (J)
3/13/2019		0.08	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.04
10/16/2019		0.059	
10/21/2019			
10/22/2019			
10/24/2019			
11/22/2019			
12/18/2019			
12/19/2019			
3/2/2020			0.0055 (J)
3/9/2020		0.08 (J)	
9/22/2020		0.056 (J)	<0.04
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.04
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.064	
9/9/2021		0.065	<0.04
9/13/2021			
9/14/2021			
9/15/2021	2.6		
9/16/2021			
1/18/2022			0.024 (J)
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.12		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.062	
9/7/2022			<0.04
9/8/2022		0.054	
9/12/2022			
9/13/2022	0.62		
9/14/2022			
9/16/2022			
1/31/2023	0.083		0.011 (J)
2/1/2023		0.051	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.3		0.012 (J)
9/7/2023		0.052	
9/11/2023			
9/12/2023			
1/30/2024	0.081	0.065	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		3.5	0.914			0.0419 (J)			
9/1/2016				7.64					3.08
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		3.34
12/8/2016								0.688	
3/28/2017	0.0097 (J)								
3/29/2017		4.3	1.07	8.46		0.103			3.96
3/30/2017					0.898		1.5	0.743	
5/11/2017									
5/12/2017	0.0082 (J)								
6/15/2017									
6/16/2017	0.0085 (J)								
7/11/2017	0.0077 (J)								
7/12/2017		3.38	1.14	7.55	0.996	0.044	1.49	0.62	2.82
10/24/2017	0.0083 (J)	3.45	1.18						
10/25/2017				9.97		0.0565	1.47	0.739	3.19
11/15/2017					0.795				
2/27/2018	0.0069 (J)	3.23	1.17	8.03		0.0539			
2/28/2018					0.106		1.58	0.627	2.91
7/10/2018	0.0059 (J)								
7/11/2018				10.2		0.057	1.4	0.79	3.7
11/6/2018	<0.04 (J)	2.1	1.2						
11/7/2018				7.7	0.76	0.055	0.8	1.6	2.6
3/12/2019	0.0068 (J)	0.98	1.2	4.8					
3/13/2019					0.62	0.047		0.76	2.6
3/14/2019							1.6		
9/17/2019				6.9					
10/15/2019	0.0054 (J)	1.6	1.2	5.9					
10/16/2019					0.65	0.052			2.2
10/17/2019							1.5		
10/18/2019								0.82	
3/2/2020	0.01 (J)		1.6	3.3					
3/3/2020		1.5			0.61	0.15	1.7		3.1
3/4/2020								0.85	
9/22/2020	<0.04		1.3	4.2		0.086 (J)			2.6
9/23/2020					0.57		1.6		
9/24/2020		0.45						0.88	
3/1/2021	0.0054 (J)								
3/2/2021			1.3		0.58	0.089	1.4		2.3
3/3/2021				3.6				0.71	
3/4/2021		0.65							
9/8/2021	<0.04								
9/9/2021			1.5	2	0.62	0.08	1.6		2.7
9/10/2021		0.24							
9/13/2021								0.78	
1/18/2022	0.015 (J)								
1/20/2022									
1/21/2022									
1/24/2022							1.4	0.9	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/25/2022			1.7	0.7	0.69	0.097			2.5
1/26/2022		0.4							
9/7/2022	<0.04								
9/13/2022						0.091	1.5		
9/14/2022								0.87	2.4
9/15/2022		0.42	1.7	3.3	0.69				
9/20/2022									
1/31/2023	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	2.2
2/7/2023									
9/6/2023	0.015 (J)								
9/8/2023			1.7		0.55	0.11	1.4		2.2
9/11/2023		0.28		0.46					
9/13/2023								1	
1/30/2024	0.015 (J)								
1/31/2024					0.63				
2/1/2024			1.5						2.4
2/2/2024		0.17		0.41					
2/5/2024						0.13	1.6		
2/6/2024								0.93	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		6.77	4.81
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		6.04	
12/8/2016			3.57
3/28/2017			
3/29/2017		8.23	
3/30/2017	1.56		5.68
5/11/2017	1.65		
5/12/2017			
6/15/2017	1.44		
6/16/2017			
7/11/2017	1.39		
7/12/2017		6.81	5.2
10/24/2017	1.18		
10/25/2017		8.94	7.92
11/15/2017			
2/27/2018	1.12		
2/28/2018		6.26	5.89
7/10/2018			
7/11/2018	0.82	5.7	8.3
11/6/2018	0.9		
11/7/2018		5	4.9
3/12/2019	0.72		
3/13/2019		5.6	6.2
3/14/2019			
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.73	5	7
10/18/2019			
3/2/2020			
3/3/2020	0.68		6.8
3/4/2020		3.6	
9/22/2020		4.9	
9/23/2020	0.57		
9/24/2020			6.1
3/1/2021			
3/2/2021	0.52	3.4	
3/3/2021			5.3
3/4/2021			
9/8/2021			
9/9/2021	0.51		5.8
9/10/2021		4.8	
9/13/2021			
1/18/2022			
1/20/2022	0.5		6.9
1/21/2022		3.6	
1/24/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		4.2	6.7
9/20/2022	0.42		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.38		
2/7/2023		3	5.6
9/6/2023			
9/8/2023			
9/11/2023		2.5	7.1
9/13/2023	0.38		
1/30/2024			
1/31/2024			6.5
2/1/2024	0.37	2.7	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								2.63	1.72
8/31/2016							7.5		
9/1/2016					0.345	0.955			
9/2/2016	3.99								
9/7/2016				0.924					
12/6/2016							5.64	2.72	1.92
12/8/2016	3.1			0.957	0.352	0.919			
3/28/2017			4.01				6.16		2.01
3/29/2017	4.85							3.04	
3/30/2017		4.68				0.925			
3/31/2017				0.989	0.312				
5/12/2017		4.03	3.58						
6/15/2017		4.11	3.58						
7/11/2017			3.85				4.61	2.55	1.78
7/12/2017		3.74							
7/13/2017	3.85			1.03	0.28	0.972			
10/24/2017			3.82					2.29	1.72
10/25/2017	3.9			0.982			4		
10/26/2017		4.07			0.269	0.746			
2/27/2018			4.06				4.29	2.07	1.68
2/28/2018	5.14			0.918					
3/1/2018		4.37			0.296				
3/2/2018						0.878			
7/11/2018				0.83					1.4
7/12/2018	3.6	4			0.26	0.82			
11/6/2018			4.1				4.2	1.7	1.4
11/7/2018	3.3			0.89	0.3	0.74			
11/8/2018		4.7							
3/12/2019			4.6				4.3	1.5	1.2
3/14/2019	4.1	4.7		0.89	0.26	0.72			
10/15/2019			5						
10/16/2019							4.3	1.2	
10/17/2019				0.94	0.25				1.2
10/18/2019	4.2	4.5				0.74			
3/2/2020			5.9				5.5		
3/3/2020	4.6							1.5	1.1
3/4/2020		4.8		1	0.24	0.77			
9/22/2020			4.3	0.88			4.6		0.78
9/23/2020					0.21	0.65		1	
9/24/2020	4.1	4.6							
3/1/2021			4.7						
3/2/2021							4.3	0.96	0.77
3/3/2021	3.9	4		0.87	0.17	0.57			
9/9/2021		4.7							
9/10/2021	4.5		5		0.16	0.55	4.7		0.54
9/13/2021				0.95				0.86	
1/20/2022	4.2	4.5		0.83					
1/21/2022					0.17				
1/24/2022			5.1			0.61	4.4		
1/25/2022								0.98	
1/26/2022									0.69
9/13/2022				1.1	0.18	0.61			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/14/2022							5		
9/15/2022								0.83	
9/16/2022	4.2								
9/19/2022			4.8						0.8
9/20/2022		4.6							
2/1/2023				0.94					
2/3/2023			4.5		0.16	0.59			0.61
2/6/2023	3.8	4.4							
2/7/2023							3.5	0.74	
3/21/2023									
4/10/2023									
9/11/2023	3.9	4.4							
9/12/2023					0.1			0.75	
9/13/2023			5.1	1.1		0.57	2.8		
9/14/2023									
1/30/2024				1.1					
1/31/2024	4.5	5.3							
2/1/2024			4.3				2.5	0.69	
2/5/2024					0.13	0.46			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	1.1
4/10/2023	1
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	1.1
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.95

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.00059 (J)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.001
9/9/2021									
9/10/2021			0.00083						
9/13/2021	0.00029 (J)	<0.0005			0.00024 (J)	<0.0005			
9/14/2021				<0.0005			<0.0005	<0.0005	0.0011
1/20/2022									0.00098
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									0.0012
2/2/2023	<0.0005		0.00087						
2/3/2023		<0.0005		<0.0005					0.0011
2/6/2023						<0.0005			
2/7/2023					<0.0005		<0.0005	<0.0005	
9/6/2023	0.00035 (J)								
9/7/2023									
9/8/2023		<0.0005							
9/11/2023			0.00072		<0.0005				
9/12/2023						<0.0005			0.001
9/13/2023				<0.0005			<0.0005	<0.0005	
1/31/2024	0.00033 (J)								
2/1/2024						<0.0005	0.00018 (J)		
2/2/2024		<0.0005	0.00061		<0.0005				
2/5/2024				<0.0005				<0.0005	0.00097

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.0005
9/11/2019			<0.0005
10/21/2019			<0.0005
8/13/2020			<0.0005
8/17/2020		0.00029 (J)	
9/24/2020			<0.0005
9/25/2020			
9/28/2020		0.00024 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.0005
4/15/2021			
9/9/2021			<0.0005
9/10/2021			
9/13/2021		0.00028 (J)	
9/14/2021			
1/20/2022			<0.0005
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			<0.0005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0003 (J)	
9/19/2022			
2/2/2023			<0.0005
2/3/2023			
2/6/2023	<0.0005		
2/7/2023		0.00036 (J)	
9/6/2023			
9/7/2023	<0.0005		<0.0005
9/8/2023		0.00034 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.0005		<0.0005
2/2/2024			
2/5/2024		0.00036 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.0005								
1/30/2019		<0.0005							
8/27/2019									
8/28/2019									
9/11/2019	<0.0005								
9/12/2019		<0.0005							
9/18/2019			<0.0005						
9/23/2019				0.00044 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.0005		0.00035 (J)	0.00041 (J)				
10/22/2019	0.00014 (J)								
10/24/2019			<0.0005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.0005						
8/14/2020					0.00037 (J)				
8/17/2020				0.00058 (J)		0.0018 (J)			
8/19/2020								0.00077 (J)	
9/22/2020									
9/24/2020			<0.0005						
9/25/2020					0.00026 (J)	0.00022 (J)			
9/28/2020				0.00066 (J)				0.00074 (J)	
3/1/2021									
3/4/2021			<0.0005		0.00032 (J)				
3/5/2021						0.0065			
3/9/2021								0.00075 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.0013			
9/14/2021	0.00025 (J)	<0.0005	<0.0005	0.0007					
9/15/2021							0.00096	0.00088	0.00056
9/16/2021					0.0003 (J)				
1/18/2022									
1/20/2022	<0.0005		<0.0005						
1/21/2022					0.0003 (J)				
1/25/2022		<0.0005		0.00072					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.001	0.00079	0.00055
1/27/2022						0.0036			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.0014	0.00084	
9/13/2022			<0.0005		0.00031 (J)				0.00055
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									0.00063
2/2/2023	<0.0005								
2/3/2023					0.0003 (J)				
2/6/2023			<0.0005						
2/7/2023		<0.0005		0.00081		0.0033			
9/6/2023							0.0008	0.001	0.00059
9/7/2023	0.00028 (J)								
9/11/2023		0.00018 (J)		0.00058					
9/12/2023			<0.0005		0.00027 (J)	0.0026			
1/30/2024							0.0013	0.0008	
1/31/2024									0.00064
2/1/2024	0.00014 (J)	0.00018 (J)		0.00072	0.00027 (J)				
2/5/2024			<0.0005			0.0023			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.0005	<0.0005
5/11/2017		8E-05 (J)	
5/15/2017			<0.0005
6/15/2017		<0.0005	<0.0005
7/11/2017			<0.0005
7/12/2017		<0.0005	
8/8/2017			<0.0005
10/24/2017		<0.0005	<0.0005
2/27/2018			<0.0005
3/8/2018		<0.0005	
7/10/2018			<0.0005
7/12/2018		0.00013 (J)	
11/6/2018			<0.0005
11/7/2018		<0.0005	
1/28/2019			
1/30/2019			
8/27/2019			<0.0005
8/28/2019		<0.0005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0005
10/16/2019		<0.0005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.00041 (J)
3/9/2020		<0.0005	
8/11/2020			<0.0005
8/13/2020		<0.0005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0005	<0.0005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.0005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0005	
9/9/2021		<0.0005	<0.0005
9/13/2021			
9/14/2021			
9/15/2021	0.0003 (J)		
9/16/2021			
1/18/2022			<0.0005
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.0005		
1/27/2022			
1/28/2022		<0.0005	
9/7/2022			<0.0005
9/8/2022		<0.0005	
9/12/2022			
9/13/2022	0.00031 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.0005		<0.0005
2/1/2023		0.00019 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00015 (J)		<0.0005
9/7/2023		<0.0005	
9/11/2023			
9/12/2023			
1/30/2024	<0.0005	<0.0005	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0012	<0.0005			<0.0005			
9/1/2016				0.0004 (J)					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)		0.0004 (J)
12/8/2016								0.0003 (J)	
3/28/2017	<0.0005								
3/29/2017		0.0013	<0.0005	0.0003 (J)		<0.0005			0.0004 (J)
3/30/2017					8E-05 (J)		9E-05 (J)	0.0003 (J)	
5/11/2017									
5/12/2017	<0.0005								
6/15/2017									
6/16/2017	<0.0005								
7/11/2017	<0.0005								
7/12/2017		0.0013	<0.0005	0.0004 (J)	<0.0005	<0.0005	<0.0005	0.0002 (J)	0.0004 (J)
10/24/2017	<0.0005	0.0014	<0.0005						
10/25/2017				0.0004 (J)		<0.0005	<0.0005	0.0002 (J)	0.0004 (J)
11/15/2017					<0.0005				
2/27/2018	<0.0005	0.001	<0.0005	<0.0005		<0.0005			
2/28/2018					<0.0005		<0.0005	<0.001	<0.001
7/10/2018	<0.0005								
7/11/2018				0.00033 (J)		<0.0005	<0.0005	0.00029 (J)	0.00039 (J)
11/6/2018	<0.0005	0.0012	<0.0005						
11/7/2018				<0.001 (J)	<0.0005	<0.0005	<0.001 (J)	<0.001	<0.001 (J)
8/27/2019	<0.0005	0.00077 (J)	0.00012 (J)	0.00037 (J)		<0.0005		0.00033 (J)	
8/28/2019					<0.0005		<0.0005		0.00033 (J)
8/29/2019									
9/17/2019				0.00035 (J)					
10/15/2019	<0.0005	0.00095 (J)	<0.0005	0.00025 (J)					
10/16/2019					<0.0005	<0.0005			0.00034 (J)
10/17/2019							<0.0005		
10/18/2019								0.00029 (J)	
3/2/2020	<0.0005		<0.0005	<0.0005					
3/3/2020		0.00095 (J)			<0.0005	<0.0005	0.00012 (J)		0.00037 (J)
3/4/2020								0.00028 (J)	
8/11/2020	<0.0005	0.00071 (J)	<0.0005	0.00038 (J)		<0.0005			0.0003 (J)
8/12/2020					<0.0005				
8/13/2020							0.00013 (J)		
8/14/2020								0.00029 (J)	
9/22/2020	<0.0005		0.00016 (J)	0.00017 (J)		<0.0005			0.00036 (J)
9/23/2020					<0.0005		<0.0005		
9/24/2020		0.00055 (J)						0.00024 (J)	
3/1/2021	<0.0005								
3/2/2021			0.00013 (J)		<0.0005	<0.0005	<0.0005		0.00035 (J)
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		0.00037 (J)
9/10/2021		0.00061							
9/13/2021								0.00023 (J)	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			0.00041 (J)
1/26/2022		0.0007							
9/7/2022	<0.0005								
9/13/2022						<0.0005	<0.0005		
9/14/2022								0.00024 (J)	0.00032 (J)
9/15/2022		0.00047 (J)	<0.0005	0.00017 (J)	<0.0005				
9/20/2022									
1/31/2023	<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)	0.00029 (J)
2/7/2023									
9/6/2023	<0.0005								
9/8/2023			0.00014 (J)		<0.0005	<0.0005	<0.0005		0.00034 (J)
9/11/2023		0.0006		<0.0005					
9/13/2023								0.00019 (J)	
1/30/2024	<0.0005								
1/31/2024					<0.0005				
2/1/2024			0.00017 (J)						0.00029 (J)
2/2/2024		0.00039 (J)		<0.0005					
2/5/2024						<0.0005	<0.0005		
2/6/2024								0.00027 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0023	0.0006 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0023	
12/8/2016			0.0006 (J)
3/28/2017			
3/29/2017		0.0021	
3/30/2017	0.0005 (J)		0.0008 (J)
5/11/2017	0.0004 (J)		
5/12/2017			
6/15/2017	0.0003 (J)		
6/16/2017			
7/11/2017	0.0003 (J)		
7/12/2017		0.0021	0.0006 (J)
10/24/2017	0.0003 (J)		
10/25/2017		0.002	0.0005 (J)
11/15/2017			
2/27/2018	<0.0005		
2/28/2018		0.0018	<0.0005
7/10/2018			
7/11/2018	0.00018 (J)	0.0018	0.00054 (J)
11/6/2018	<0.001 (J)		
11/7/2018		0.0018	<0.001 (J)
8/27/2019	0.00012 (J)		
8/28/2019			
8/29/2019		0.002 (J)	0.00087 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.00013 (J)	0.0017 (J)	0.0006 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.00014 (J)		0.00063 (J)
3/4/2020		0.0026	
8/11/2020	<0.0005		
8/12/2020			
8/13/2020		0.0021 (J)	
8/14/2020			0.00054 (J)
9/22/2020		0.0014 (J)	
9/23/2020	0.00013 (J)		
9/24/2020			0.00073 (J)
3/1/2021			
3/2/2021	<0.0005	0.0025	
3/3/2021			0.00044 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.0005		0.00012 (J)
9/10/2021		0.0012	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0005		<0.0005
1/21/2022		0.0028	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0021	0.00029 (J)
9/20/2022	<0.0005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0005		
2/7/2023		0.0027	0.00059
9/6/2023			
9/8/2023			
9/11/2023		0.0038	0.00054
9/13/2023	<0.0005		
1/30/2024			
1/31/2024			0.00057
2/1/2024	<0.0005	0.003	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0019	0.0004 (J)
8/31/2016							0.0002 (J)		
9/1/2016					0.0017	0.0013			
9/2/2016	0.0003 (J)								
9/7/2016				0.0007 (J)					
12/6/2016							0.0004 (J)	0.0025	0.0005 (J)
12/8/2016	0.0004 (J)			0.0003 (J)	0.0002 (J)	0.0042			
3/28/2017			0.0006 (J)				0.0002 (J)		0.0005 (J)
3/29/2017	0.0004 (J)							0.0024	
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)				0.0003 (J)	0.0021	0.0005 (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)					0.0029	0.0006 (J)
10/25/2017	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	<0.001
2/28/2018	<0.001			<0.001					
3/1/2018		<0.0005			0.0025				
3/2/2018						0.0049			
7/11/2018				0.0024					0.00067 (J)
7/12/2018	0.00091 (J)	0.00028 (J)			0.0021	0.0032			
11/6/2018			<0.001 (J)				<0.001 (J)	0.0027	<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)				0.00082 (J)		0.00071 (J)
8/28/2019				0.0015 (J)				0.0022 (J)	
8/29/2019	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				0.00058 (J)	0.0033				0.00064 (J)
10/18/2019	0.00056 (J)	0.00022 (J)				0.0028			
3/2/2020			0.00088 (J)				0.00089 (J)		
3/3/2020	0.00061 (J)							0.002 (J)	0.00059 (J)
3/4/2020		0.00024 (J)		0.00037 (J)	0.0017 (J)	0.0036			
8/11/2020									0.00059 (J)
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	0.00057 (J)								
9/22/2020			0.00065 (J)	0.0007 (J)			0.00072 (J)		0.00059 (J)
9/23/2020					0.0013 (J)	0.0025		0.0018 (J)	
9/24/2020	0.00058 (J)	0.00018 (J)							
3/1/2021			0.00085						
3/2/2021							0.00075	0.0017	0.00057
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	0.00093		0.00053
9/13/2021				0.00042 (J)				0.002	
1/20/2022	0.00052	0.00012 (J)		0.00038 (J)					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0019				
1/24/2022			0.00098			0.0029	0.00094		
1/25/2022								0.0016	
1/26/2022									0.00059
9/13/2022				0.00069	0.0011	0.0026			
9/14/2022							0.00087		
9/15/2022								0.0011	
9/16/2022	0.00065								
9/19/2022			0.00091						0.00076
9/20/2022		0.00017 (J)							
2/1/2023				0.00075					
2/3/2023			0.001		0.0013	0.0024			0.00053
2/6/2023	0.00045 (J)	0.00021 (J)							
2/7/2023							0.0012	0.00087	
9/11/2023	0.0006	<0.0005							
9/12/2023					0.00083			0.0015	
9/13/2023			0.00099	0.00068		0.0026	0.0013		
9/14/2023									
1/30/2024				0.001					
1/31/2024	0.00055	0.00012 (J)							
2/1/2024			0.00099				0.0012	0.0011	
2/5/2024					0.0011	0.0022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.0005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									171
9/9/2021									
9/10/2021			84.7						
9/13/2021	51.5	53.6			42.1	83.6			
9/14/2021				151			83.3	98.4	162
1/20/2022									158
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									142
2/2/2023	46.9		68						
2/3/2023		41.8		142					121
2/6/2023						76			
2/7/2023					30.7		83.1	91.5	
9/6/2023	49.9								
9/7/2023									
9/8/2023		96.6							
9/11/2023			71.9		35.3				
9/12/2023						80.8			110
9/13/2023				152			83.9	93.4	
1/31/2024	24.3								
2/1/2024						78.9	75.3		
2/2/2024		92.4	64.5		28.9				
2/5/2024				157				102	115

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			51.4
10/21/2019			31.2
9/24/2020			28.8
9/25/2020			
9/28/2020		15.1	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		18.5	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			28.8
4/15/2021			
9/9/2021			29.2
9/10/2021			
9/13/2021		15.2	
9/14/2021			
1/20/2022			36.3
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			31.4
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		18.4	
9/19/2022			
2/2/2023			32.4
2/3/2023			
2/6/2023	47.3		
2/7/2023		20.1	
9/6/2023			
9/7/2023	52.3		35.1
9/8/2023		19.8	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	53.6		33.2
2/2/2024			
2/5/2024		22.5	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<25								
1/30/2019		62.4							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		85.5		27	35.1				
10/22/2019	20.7								
10/24/2019			15.6						
11/22/2019						156			
12/18/2019							139		
12/19/2019								168	
2/17/2020									190
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			17.9						
9/25/2020					39.8	79.8			
9/28/2020				26.5				110	
3/1/2021									
3/4/2021			14.8		39.1				
3/5/2021						128			
3/9/2021								127	
3/12/2021									
9/9/2021									
9/13/2021						80.5			
9/14/2021	22.7	60.9	17	33.4					
9/15/2021							110	129	178
9/16/2021					39.4				
1/18/2022									
1/20/2022	22.9		18.6						
1/21/2022					40.8				
1/25/2022		54.9		36.4					
1/26/2022							96	141	198
1/27/2022						105			
1/28/2022									
9/7/2022									
9/8/2022									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/12/2022							104	133	
9/13/2022			15.7		36.2				201
9/14/2022	26.3								
9/16/2022		63.9		34.3		97.6			
1/31/2023							95	123	
2/1/2023									192
2/2/2023	21.2								
2/3/2023					31.4				
2/6/2023			14.8						
2/7/2023		45.3		37		92.4			
9/6/2023							158	148	220
9/7/2023	23.7								
9/11/2023		46.7		52.3					
9/12/2023			19.2		32.4	102			
1/30/2024							126	140	
1/31/2024									200
2/1/2024	22.6	43.5		55.7	33.1				
2/5/2024			19			118			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		30.8	5.14
5/11/2017		35.8	
5/15/2017			6.5
6/15/2017		36	5.38
7/11/2017			5.96
7/12/2017		40.3	
8/8/2017			5.2
10/24/2017		30.3	4.93
2/27/2018			<25
3/8/2018		39.8	
7/10/2018			5
7/12/2018		34.7	
11/6/2018			5.5
11/7/2018		28.6	
1/28/2019			
1/30/2019			
3/12/2019			5.1
3/13/2019		26.7	
10/15/2019			5.1
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	85.9		
3/2/2020			5.3
3/9/2020		23.7	
9/22/2020		15.5	5
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			4.1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		18.4	
9/9/2021		18.3	5.3
9/13/2021			
9/14/2021			
9/15/2021	105		
9/16/2021			
1/18/2022			6.1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	31.9		
1/27/2022			
1/28/2022		19.5	
9/7/2022			5.9
9/8/2022		17.2	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/12/2022			
9/13/2022	63.3		
9/14/2022			
9/16/2022			
1/31/2023	40.6		6.2
2/1/2023		14.1	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	43.2		6.6
9/7/2023		16.3	
9/11/2023			
9/12/2023			
1/30/2024	32.7	13.7	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		81.7	44.2			9.95			
9/1/2016				80.6					65.6
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		68.3
12/8/2016								7.92	
3/28/2017	8.31								
3/29/2017		79.5	50.5	88.3		14.4			68
3/30/2017					46.3		36.9	9.56	
5/11/2017									
5/12/2017	8.04								
6/15/2017									
6/16/2017	7.66								
7/11/2017	7.71								
7/12/2017		86.3	50.8	87	47.8	10.5	38.4	10.4	70
10/24/2017	6.86	81.5	55						
10/25/2017				92.1		9.67	36.2	10.9	77
11/15/2017					49.3				
2/27/2018	<25	96.2	51.4	85.6		<25			
2/28/2018					<25		35	<25	72
7/10/2018	5.7								
7/11/2018				93.6		9.9	37.5	13 (J)	82.7
11/6/2018	5.7	94.8	62.6						
11/7/2018				73.3	44.8	9.7	11.4	37	81.7
3/12/2019	5.5	83.5	61.4	62.1					
3/13/2019					42.1	9.7		11.9 (J)	76.9
3/14/2019							34.7		
10/15/2019	5.1	79.1	61.2	61.4					
10/16/2019					43.8	9.4			85.7
10/17/2019							37		
10/18/2019								12.9	
3/2/2020	5.8		65.8	46.5					
3/3/2020		63.6			49.3	14	37.8		86.8
3/4/2020								15.8	
9/22/2020	5.4		72.7	55.4		11.6			103
9/23/2020					39		35.6		
9/24/2020		53.1						12.7	
3/1/2021	5.9								
3/2/2021			65.3		40.5	11.4	36		93.2
3/3/2021				50.1				14.3	
3/4/2021		75.8							
9/8/2021	6.1								
9/9/2021			66.8	29.2	38.2	11.1	34.4		93.6
9/10/2021		82.4							
9/13/2021								15.8	
1/18/2022	6.6								
1/20/2022									
1/21/2022									
1/24/2022							33.2	15.6	
1/25/2022			70.2	28.5	43.2	12.4			101

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		76.8							
9/7/2022	6.4								
9/13/2022						11.2	34.4		
9/14/2022								16.4	105
9/15/2022		64.4	66.6	41.5	36.7				
9/20/2022									
1/31/2023	5.7								
2/1/2023					33.6	11.9			
2/2/2023		60.8					32.2		
2/6/2023			58.8	28.3				17.5	105
2/7/2023									
9/6/2023	7								
9/8/2023			58.6		32.7	12	34.3		115
9/11/2023		72.7		30.8					
9/13/2023								19.8	
1/30/2024	6.1								
1/31/2024					30.8				
2/1/2024			55.1						113
2/2/2024		79.3		31.7					
2/5/2024						12.7	32.8		
2/6/2024								19.7	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		96.3	70.2
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		91.9	
12/8/2016			70.1
3/28/2017			
3/29/2017		95.7	
3/30/2017	103		72.5
5/11/2017	102		
5/12/2017			
6/15/2017	96.2		
6/16/2017			
7/11/2017	98.4		
7/12/2017		100	80.4
10/24/2017	86		
10/25/2017		97.3	75.6
11/15/2017			
2/27/2018	66.7		
2/28/2018		86.3	73.2
7/10/2018			
7/11/2018	55	92.4	82.3
11/6/2018	54.5		
11/7/2018		85.9	78.5
3/12/2019	52.2		
3/13/2019		86.4	79.9
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	47.2	86.9	79.8
10/18/2019			
3/2/2020			
3/3/2020	48.4		87.4
3/4/2020		103	
9/22/2020		79.2	
9/23/2020	44.4		
9/24/2020			80
3/1/2021			
3/2/2021	44	74.7	
3/3/2021			82.1
3/4/2021			
9/8/2021			
9/9/2021	42		75.3
9/10/2021		69.8	
9/13/2021			
1/18/2022			
1/20/2022	44.6		83.7
1/21/2022		104	
1/24/2022			
1/25/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		70.1	82.2
9/20/2022	37.8		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	35.3		
2/7/2023		110	84.8
9/6/2023			
9/8/2023			
9/11/2023		114	88.4
9/13/2023	33.6		
1/30/2024			
1/31/2024			85.3
2/1/2024	33.3	112	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								82.7	64.9
8/31/2016							82.6		
9/1/2016					69.3	95.1			
9/2/2016	61.6								
9/7/2016				43.6					
12/6/2016							73.9	76.8	59.3
12/8/2016	60.1			45.8	71.1	105			
3/28/2017			229				89.1		71.6
3/29/2017	64.7							90.5	
3/30/2017		68.1				98.6			
3/31/2017				48.3	62.6				
5/12/2017		71.1	233						
6/15/2017		65.9	224						
7/11/2017			249				84.6	91.1	73.7
7/12/2017		70							
7/13/2017	67.2			52.3	52.5	102			
10/24/2017			232					78.1	92.5
10/25/2017	66.8			50.9			95.6		
10/26/2017		67.2			46.7	94			
2/27/2018			245				108	64.2	73.1
2/28/2018	62.3			45.1					
3/1/2018		66.5			44.2				
3/2/2018						86.6			
7/11/2018				47.8					88.5
7/12/2018	71	72			41.6	89.1			
11/6/2018			284				124	57	81.1
11/7/2018	60.9			45.5	38.6	88			
11/8/2018		73.5							
3/12/2019			295				110	54.3	78.1
3/14/2019	64.8	73.2		43.5	36.6	74.6			
10/15/2019			276						
10/16/2019							109	47.3	
10/17/2019				44.1	36.2				75.6
10/18/2019	61.7	67.7				72.7			
3/2/2020			320				116		
3/3/2020	68.7							46	59.5
3/4/2020		69.8		48.8	36	79.7			
9/22/2020			263	43.8			99.2		54.7
9/23/2020					22.3	72.2		39.3	
9/24/2020	62.6	73.7							
3/1/2021			322						
3/2/2021							114	35.6	48.8
3/3/2021	62.3	68.1		38.8	25.5	66			
9/9/2021		76.4							
9/10/2021	62.3		285		24.4	68.7	123		47.7
9/13/2021				38.9				36	
1/20/2022	67.3	82.7		38.1					
1/21/2022					31				
1/24/2022			299			61.2	112		
1/25/2022								36.8	
1/26/2022									48.4
9/13/2022				34.2	24.8	65.3			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/14/2022							117		
9/15/2022								29.3	
9/16/2022	66.2								
9/19/2022			376						45.1
9/20/2022		90							
2/1/2023				32.7					
2/3/2023			287		23.7	64.1			43.8
2/6/2023	56.7	86.4							
2/7/2023							139	26	
3/21/2023									
4/10/2023									
9/11/2023	61.2	95.4							
9/12/2023					21.9			30	
9/13/2023			279	33.6		55	152		
9/14/2023									
1/30/2024				29.9					
1/31/2024	57.1	95.7							
2/1/2024			268				146	30.6	
2/5/2024					23.9	61.7			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	123
4/10/2023	139
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	140
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	10.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									6.2
9/9/2021									
9/10/2021			10.2						
9/13/2021	11.1	8.7			7	11.7			
9/14/2021				7.9			28.8	27.3	6.1
1/20/2022									6
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									5.8
2/2/2023	11.7		10.8						
2/3/2023		9.1		7.8					6.1
2/6/2023						13.6			
2/7/2023					6.8		27.6	9.9	
9/6/2023	10								
9/7/2023									
9/8/2023		9.5							
9/11/2023			10.4		7.8				
9/12/2023						14.1			6
9/13/2023				7.7			29.9	10.2	
1/31/2024	7.5								
2/1/2024						14.4	28.9		
2/2/2024		9.9	10.3		8.1				
2/5/2024				7.1				20.3	5.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			7.1
10/21/2019			6.5
9/24/2020			5.7
9/25/2020			
9/28/2020		8.7	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		8.3	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			5.9
4/15/2021			
9/9/2021			5.8
9/10/2021			
9/13/2021		7.1	
9/14/2021			
1/20/2022			5.6
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			5.3
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		6.9	
9/19/2022			
2/2/2023			5.8
2/3/2023			
2/6/2023	15.4		
2/7/2023		6.9	
9/6/2023			
9/7/2023	12.6		5.4
9/8/2023		6.8	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	12.7		5.6
2/2/2024			
2/5/2024		6.9	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	7.9								
1/30/2019		9.3							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		9.9		14.3	3.4				
10/22/2019	18								
10/24/2019			3.3						
11/22/2019						9.1			
12/18/2019							9.4		
12/19/2019								10.4	
2/17/2020									20.9
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			5.3						
9/25/2020					3	10			
9/28/2020				9.9				10.8	
3/1/2021									
3/4/2021			2.9		3.2				
3/5/2021						7.8			
3/9/2021								13.5	
3/12/2021									
9/9/2021									
9/13/2021						8.2			
9/14/2021	7.1	8.9	4.7	9.5					
9/15/2021							10.4	13.2	18.8
9/16/2021					2.6				
1/18/2022									
1/20/2022	15		5						
1/21/2022					2.4				
1/25/2022		8.7		9.9					
1/26/2022							9.4	14.7	19.8
1/27/2022						8.8			
1/28/2022									
9/7/2022									

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							10.2	15	
9/13/2022			2.4		2.5				19.5
9/14/2022	6.5								
9/16/2022		8.4		9.4		8.7			
1/31/2023							11.4	15.7	
2/1/2023									19.4
2/2/2023	7								
2/3/2023					2.5				
2/6/2023			3.5						
2/7/2023		8.7		12.1		8.4			
9/6/2023							13.6	16.8	17.2
9/7/2023	6.8								
9/11/2023		9		11.9					
9/12/2023			4		2.4	9.1			
1/30/2024							15	17.1	
1/31/2024									17.3
2/1/2024	6.3	9		11.9	2.4				
2/5/2024			3.2			8.9			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		3.7	3.8
5/11/2017		2.3	
5/15/2017			2.2
6/15/2017		2.6	2
7/11/2017			2.1
7/12/2017		2.3	
8/8/2017			2.2
10/24/2017		2.7	2.4
11/15/2017		2.2	
2/27/2018			2.5
3/8/2018		2.4	
7/10/2018			1.9
7/12/2018		2.2	
11/6/2018			2.3
11/7/2018		2.3	
1/28/2019			
1/30/2019			
3/12/2019			2.5
3/13/2019		3.6	
10/15/2019			2.2
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	96.8		
3/2/2020			1.9
3/9/2020		1.8	
9/22/2020		1.6	1.9
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			1.9
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		2	
9/9/2021		1.8	1.9
9/13/2021			
9/14/2021			
9/15/2021	29.9		
9/16/2021			
1/18/2022			1.9
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	4.9		
1/27/2022			
1/28/2022		1.8	
9/7/2022			2.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		1.6	
9/12/2022			
9/13/2022	4.9		
9/14/2022			
9/16/2022			
1/31/2023	2.8		2.2
2/1/2023		1.9	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	3.2		2.2
9/7/2023		1.7	
9/11/2023			
9/12/2023			
1/30/2024	4.4	1.6	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		11	11			3.1			
9/1/2016				13					41
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		41
12/8/2016								19	
3/28/2017	3.6								
3/29/2017		11	12	13		3.8			42
3/30/2017					16		21	20	
5/11/2017									
5/12/2017	3.8								
6/15/2017									
6/16/2017	3.4								
7/11/2017	3.1								
7/12/2017		11	11	12	14	2.9	21	18	41
10/24/2017	3.2	11	12						
10/25/2017				13		3.5	21	19	41
11/15/2017	3.1	12			16				
2/27/2018	3.2	10.8	12.7	11.7		3.4			
2/28/2018					2.7		20.1	17	36.4
7/10/2018	2.5								
7/11/2018				11.3		3.2	21.4	19.5	38.2
11/6/2018	2.6	12.3	15.2						
11/7/2018				11.8	16.7	3.1	22.4	21.4	38.8
3/12/2019	3.3	12.1	14.5	12.1					
3/13/2019					12.4	3.4		19.9	40.1
3/14/2019							24		
10/15/2019	3.3	9.4	15.6	11.6					
10/16/2019					17.4	3.5			33.2
10/17/2019							22		
10/18/2019								22	
3/2/2020	3		15	8.9					
3/3/2020		8.4			9.4	4.1	22.7		30.9
3/4/2020								19.6	
9/22/2020	5.2		16	10.8		3.2			27.6
9/23/2020					12.6		22.4		
9/24/2020		5.9						22.7	
3/1/2021	3.9								
3/2/2021			14.4		13.1	3.5	22.8		27
3/3/2021				10.3				20.9	
3/4/2021		7.2							
9/8/2021	5.9								
9/9/2021			13.6	8.5	12.9	3.3	21.9		25.4
9/10/2021		8.2							
9/13/2021								18.2	
1/18/2022	5.9								
1/20/2022									
1/21/2022									
1/24/2022							21.5	19.2	
1/25/2022			14.1	8.1	14.3	3.7			23.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		9							
9/7/2022	8.2								
9/13/2022						3.5	21.9		
9/14/2022								19	18.7
9/15/2022		8.2	12.1	8.2	13.7				
9/20/2022									
1/31/2023	7.3								
2/1/2023					12.2	4.5			
2/2/2023		9.9					22.1		
2/6/2023			12.1	6.8				18.8	17.9
2/7/2023									
9/6/2023	7.8								
9/8/2023			11.2		11.7	3.5	20		15.8
9/11/2023		10.1		6.5					
9/13/2023								18.2	
1/30/2024	8.2								
1/31/2024					11.1				
2/1/2024			11.1						14.2
2/2/2024		9.2		6.9					
2/5/2024						3.7	20.4		
2/6/2024								18	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		15	25
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		16	
12/8/2016			24
3/28/2017			
3/29/2017		17	
3/30/2017	4.8		24
5/11/2017	4.4		
5/12/2017			
6/15/2017	4.8		
6/16/2017			
7/11/2017	4.6		
7/12/2017		18	23
10/24/2017	4.4		
10/25/2017		20	23
11/15/2017			
2/27/2018	4.1		
2/28/2018		18.6	19.9
7/10/2018			
7/11/2018	3.3	20.4	20.9
11/6/2018	3.7		
11/7/2018		21.5	20.5
3/12/2019	3.1		
3/13/2019		24.8	21.3
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	2.8	24.9	20.1
10/18/2019			
3/2/2020			
3/3/2020	2.3		19.7
3/4/2020		27.8	
9/22/2020		25.8	
9/23/2020	2.1		
9/24/2020			20
3/1/2021			
3/2/2021	2.1	28	
3/3/2021			19.7
3/4/2021			
9/8/2021			
9/9/2021	2.1		20.2
9/10/2021		26.2	
9/13/2021			
1/18/2022			
1/20/2022	2		18.6
1/21/2022		27	
1/24/2022			
1/25/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		26.2	17.6
9/20/2022	2		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	2.1		
2/7/2023		27.9	18.6
9/6/2023			
9/8/2023			
9/11/2023		26.9	17.8
9/13/2023	1.9		
1/30/2024			
1/31/2024			17.8
2/1/2024	1.9	27.2	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								9.7	6
8/31/2016							8.6		
9/1/2016					12	18			
9/2/2016	30								
9/7/2016				33					
12/6/2016							8	9.8	6.2
12/8/2016	26			32	12	17			
3/28/2017			29				9.5		6.6
3/29/2017	30							9.9	
3/30/2017		17				16			
3/31/2017				33	9.1				
5/12/2017		17	29						
6/15/2017		16	28						
7/11/2017			28				9	9.7	6.9
7/12/2017		16							
7/13/2017	29			33	5.7	15			
10/24/2017			28					9.9	6.7
10/25/2017	29			32			9.4		
10/26/2017		17			6.6	14			
11/15/2017			27						
2/27/2018			24.6				9.7	9.5	8.2
2/28/2018	23.4			29					
3/1/2018		14.8			10.7				
3/2/2018						12.8			
7/11/2018				29.3					10.5
7/12/2018	26.1	15.2			9.5	11.7			
11/6/2018			24.8				10.2	10.5	8.7
11/7/2018	25.8			28.6	8.6	11.4			
11/8/2018		14.6							
3/12/2019			24.2				10.6	10.7	8.5
3/14/2019	26.3	15.2		24.8	6.6	10.2			
10/15/2019			20.9						
10/16/2019							11.6	10.4	
10/17/2019				25.8	7				10
10/18/2019	23.4	14.4				9.6			
3/2/2020			18.7				10.5		
3/3/2020	21.8							9.6	6.6
3/4/2020		13.9		23.6	4.4	9.1			
9/22/2020			17	22.1			10.5		8
9/23/2020					3.3	8		9.1	
9/24/2020	21.5	13.7							
3/1/2021			15						
3/2/2021							9.8	8.6	8.4
3/3/2021	20.6	14		20.8	2.9	14.2			
9/9/2021		12.3							
9/10/2021	17.3		13.9		2.4	10.9	9.9		9
9/13/2021				17.1				8.2	
1/20/2022	18.1	12		18.2					
1/21/2022					3.1				
1/24/2022			12.5			11.3	9.9		
1/25/2022								9.3	
1/26/2022									9.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				18.7	3.3	8.9			
9/14/2022							11.2		
9/15/2022								8.3	
9/16/2022	18								
9/19/2022			11.2						13.2
9/20/2022		11.6							
2/1/2023				19.3					
2/3/2023			11		2.6	8.2			14.7
2/6/2023	16.9	12.4							
2/7/2023							10	8.7	
3/21/2023									
4/10/2023									
9/11/2023	16.8	12							
9/12/2023					2.4			9.5	
9/13/2023			9.4	18.4		6.5	9.5		
9/14/2023									
1/30/2024				18.1					
1/31/2024	16	12.5							
2/1/2024			8.7				11.6	10.5	
2/5/2024					2.2	6.1			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	7.2
4/10/2023	7.4
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	5.9
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	9.8

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									<0.005
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	0.0014 (J)			<0.005	<0.005			
9/14/2021				<0.005			<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									<0.005
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		<0.005					<0.005
2/6/2023						<0.005			
2/7/2023					0.0013 (J)		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			<0.005
9/13/2023				<0.005			<0.005	<0.005	
1/31/2024	<0.005								
2/1/2024						<0.005	<0.005		
2/2/2024		<0.005	<0.005		<0.005				
2/5/2024				<0.005				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			0.00098 (J)
8/13/2020			<0.005
8/17/2020		0.0014 (J)	
9/24/2020			<0.005
9/25/2020			
9/28/2020		<0.005	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00059 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		<0.005	
9/14/2021			
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			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.005	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		<0.005	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		<0.005	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.005		<0.005
2/2/2024			
2/5/2024		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			0.00068 (J)						
9/23/2019				0.0011 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		<0.005	0.0017 (J)				
10/22/2019	0.00064 (J)								
10/24/2019			<0.005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0021 (J)						
8/14/2020					0.005 (J)				
8/17/2020				<0.005		0.0014 (J)			
8/19/2020								0.00057 (J)	
9/22/2020									
9/24/2020			0.0007 (J)						
9/25/2020					0.0051 (J)	0.00085 (J)			
9/28/2020				<0.005				0.00066 (J)	
3/1/2021									
3/4/2021			0.00098 (J)		0.0049 (J)				
3/5/2021						0.0017 (J)			
3/9/2021								<0.005	
3/12/2021									
9/9/2021									
9/13/2021						<0.005			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							<0.005	<0.005	<0.005
9/16/2021					0.003 (J)				
1/18/2022									
1/20/2022	<0.005		<0.005						
1/21/2022					0.0034 (J)				
1/25/2022		<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.005	0.0011 (J)	<0.005
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.005	<0.005	
9/13/2022			<0.005		0.0022 (J)				<0.005
9/14/2022	<0.005								
9/16/2022		<0.005		<0.005		<0.005			
1/31/2023							<0.005	<0.005	
2/1/2023									<0.005
2/2/2023	<0.005								
2/3/2023					0.0026 (J)				
2/6/2023			<0.005						
2/7/2023		<0.005		0.0013 (J)		<0.005			
9/6/2023							<0.005	<0.005	<0.005
9/7/2023	0.0013 (J)								
9/11/2023		<0.005		<0.005					
9/12/2023			<0.005		0.0022 (J)	<0.005			
1/30/2024							<0.005	0.0024 (J)	
1/31/2024									<0.005
2/1/2024	<0.005	<0.005		<0.005	0.0023 (J)				
2/5/2024			<0.005			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.005	0.0008 (J)
5/11/2017		<0.005	
5/15/2017			0.0006 (J)
6/15/2017		<0.005	0.0006 (J)
7/11/2017			0.0005 (J)
7/12/2017		<0.005	
8/8/2017			0.0005 (J)
10/24/2017		<0.005	0.0005 (J)
2/27/2018			<0.005
3/8/2018		<0.005	
7/10/2018			<0.005
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005	
1/28/2019			
1/30/2019			
8/27/2019			0.00071 (J)
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.034 (O)
10/16/2019		<0.005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.0013 (J)
3/9/2020		<0.005	
8/11/2020			0.0016 (J)
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.005	0.00089 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	<0.005		
9/16/2021			
1/18/2022			<0.005
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.0013 (J)		
1/27/2022			
1/28/2022		<0.005	
9/7/2022			<0.005
9/8/2022		<0.005	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	0.0014 (J)		<0.005
2/1/2023		<0.005	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	<0.005	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.005	<0.005			<0.005			
9/1/2016				<0.005					0.0031 (J)
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		<0.01
12/8/2016								0.0025 (J)	
3/28/2017	0.0023 (J)								
3/29/2017		0.0008 (J)	<0.005	<0.005		<0.005			0.0025 (J)
3/30/2017					0.0009 (J)		0.0005 (J)	0.0026 (J)	
5/11/2017									
5/12/2017	0.0004 (J)								
6/15/2017									
6/16/2017	0.0005 (J)								
7/11/2017	<0.005								
7/12/2017		0.0006 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0023 (J)
10/24/2017	<0.005	0.0007 (J)	<0.005						
10/25/2017				<0.005		<0.005	<0.005	0.0024 (J)	0.0024 (J)
11/15/2017					<0.005				
2/27/2018	<0.005	<0.005	<0.005	<0.005		<0.005			
2/28/2018					<0.005		<0.005	<0.01	<0.01
7/10/2018	<0.005								
7/11/2018				<0.005		<0.005	<0.005	0.0024 (J)	0.0022 (J)
11/6/2018	<0.005	<0.005	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.01 (J)	<0.01	<0.01 (J)
8/27/2019	0.0018 (J)	0.00083 (J)	0.0006 (J)	<0.005		<0.005		0.0031 (J)	
8/28/2019					<0.005		<0.005		0.0028 (J)
8/29/2019									
9/17/2019				<0.005					
10/15/2019	0.0025 (J)	0.00078 (J)	<0.005	<0.005					
10/16/2019					<0.005	<0.005			0.0024 (J)
10/17/2019							0.00058 (J)		
10/18/2019								0.0027 (J)	
3/2/2020	0.00045 (J)		0.0006 (J)	<0.005					
3/3/2020		0.00092 (J)			0.00066 (J)	<0.005	0.00046 (J)		0.0028 (J)
3/4/2020								0.0035 (J)	
8/11/2020	0.0006 (J)	0.00097 (J)	0.00061 (J)	0.00094 (J)		<0.005			0.0024 (J)
8/12/2020					0.00074 (J)				
8/13/2020							0.0048 (J)		
8/14/2020								0.0033 (J)	
9/22/2020	<0.005		0.00058 (J)	<0.005		<0.005			0.003 (J)
9/23/2020					0.00059 (J)		<0.005		
9/24/2020		0.001 (J)						0.0029 (J)	
3/1/2021	<0.005								
3/2/2021			<0.005		<0.005	<0.005	<0.005		0.0024 (J)
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		0.003 (J)
9/10/2021		<0.005							
9/13/2021								0.0027 (J)	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			0.0029 (J)
1/26/2022		0.0011 (J)							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								0.0023 (J)	0.0024 (J)
9/15/2022		<0.005	<0.005	<0.005	<0.005				
9/20/2022									
1/31/2023	<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)	0.0022 (J)
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		<0.005	<0.005	<0.005		0.0021 (J)
9/11/2023		0.0016 (J)		<0.005					
9/13/2023								0.0027 (J)	
1/30/2024	<0.005								
1/31/2024					<0.005				
2/1/2024			<0.005						0.0024 (J)
2/2/2024		<0.005		<0.005					
2/5/2024						<0.005	<0.005		
2/6/2024								0.0029 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0017 (J)	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.005	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.0016 (J)	
3/30/2017	0.0005 (J)		0.0005 (J)
5/11/2017	0.0005 (J)		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		<0.005	0.0006 (J)
10/24/2017	<0.005		
10/25/2017		0.0015 (J)	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		<0.005	<0.005
7/10/2018			
7/11/2018	<0.005	<0.005	<0.005
11/6/2018	<0.005		
11/7/2018		<0.01 (J)	<0.005
8/27/2019	0.0004 (J)		
8/28/2019			
8/29/2019		0.0017 (J)	0.00041 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.00046 (J)	0.0015 (J)	<0.005
10/18/2019			
3/2/2020			
3/3/2020	<0.005		0.00048 (J)
3/4/2020		0.0032 (J)	
8/11/2020	0.00067 (J)		
8/12/2020			
8/13/2020		0.0023 (J)	
8/14/2020			<0.005
9/22/2020		0.0013 (J)	
9/23/2020	<0.005		
9/24/2020			0.00096 (J)
3/1/2021			
3/2/2021	0.00064 (J)	0.0022 (J)	
3/3/2021			0.002 (J)
3/4/2021			
9/8/2021			
9/9/2021	<0.005		<0.005
9/10/2021		<0.005	
9/13/2021			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.005		<0.005
1/21/2022		0.0021 (J)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0014 (J)	<0.005
9/20/2022	<0.005		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.005		
2/7/2023		0.0023 (J)	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.0026 (J)	<0.005
9/13/2023	<0.005		
1/30/2024			
1/31/2024			<0.005
2/1/2024	<0.005	0.0021 (J)	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.005	<0.005
8/31/2016							<0.005		
9/1/2016					<0.005	<0.005			
9/2/2016	0.0012 (J)								
9/7/2016				<0.005					
12/6/2016							<0.005	<0.005	<0.005
12/8/2016	<0.005			<0.005	<0.005	<0.005			
3/28/2017			0.0005 (J)				<0.005		0.001 (J)
3/29/2017	<0.005							0.0004 (J)	
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				<0.005	<0.005	<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					<0.005	<0.005
10/25/2017	<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	<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					<0.005
7/12/2018	<0.005	<0.005			<0.005	<0.005			
11/6/2018			<0.005				<0.005	<0.005	<0.005
11/7/2018	<0.005			<0.005	<0.005	<0.005			
11/8/2018		<0.005							
8/27/2019			<0.005				<0.005		0.00048 (J)
8/28/2019				<0.005				<0.005	
8/29/2019	<0.005	<0.005			<0.005	<0.005			
10/15/2019			<0.005						
10/16/2019							<0.005	0.0013 (J)	
10/17/2019				0.00041 (J)	<0.005				0.00051 (J)
10/18/2019	<0.005	0.00041 (J)				<0.005			
3/2/2020			<0.005				0.00045 (J)		
3/3/2020	<0.005							0.00061 (J)	0.0057 (J)
3/4/2020		0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)			
8/11/2020									0.00061 (J)
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								
9/22/2020			<0.005	0.001 (J)			<0.005		<0.005
9/23/2020					<0.005	<0.005		0.00086 (J)	
9/24/2020	<0.005	0.00084 (J)							
3/1/2021			<0.005						
3/2/2021							<0.005	0.0015 (J)	0.00059 (J)
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	<0.005		<0.005
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.005				
1/24/2022			<0.005			<0.005	<0.005		
1/25/2022								<0.005	
1/26/2022									0.0029 (J)
9/13/2022				<0.005	<0.005	<0.005			
9/14/2022							<0.005		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						<0.005
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		<0.005	<0.005			0.0013 (J)
2/6/2023	<0.005	<0.005							
2/7/2023							<0.005	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					<0.005			<0.005	
9/13/2023			<0.005	<0.005		<0.005	<0.005		
9/14/2023									
1/30/2024				<0.005					
1/31/2024	<0.005	<0.005							
2/1/2024			<0.005				<0.005	<0.005	
2/5/2024					<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
7/23/2020	0.086								
8/3/2020	0.087								
8/13/2020									
8/17/2020	0.077								
9/24/2020									
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)	
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								
3/12/2021									
4/15/2021									0.017
9/9/2021									
9/10/2021			0.013						
9/13/2021	0.035	0.003 (J)			0.00056 (J)	0.00083 (J)			
9/14/2021				0.1			0.0017 (J)	<0.005	0.0055
1/20/2022									0.0045 (J)
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								
9/9/2022									
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									0.0027 (J)
2/2/2023	<0.005		0.011						
2/3/2023		0.0022 (J)		0.17					0.0025 (J)
2/6/2023						0.0007 (J)			
2/7/2023					<0.005		0.001 (J)	0.0004 (J)	
9/6/2023	0.031								
9/7/2023									
9/8/2023		0.0032 (J)							
9/11/2023			0.01		<0.005				
9/12/2023						0.001 (J)			0.0022 (J)
9/13/2023				0.18			0.00045 (J)	<0.005	
1/31/2024	0.065								
2/1/2024						0.00088 (J)	0.12		
2/2/2024		0.0026 (J)	0.0088		<0.005				
2/5/2024				0.16				<0.005	0.0018 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			0.0003 (J)
10/21/2019			0.00031 (J)
7/23/2020			
8/3/2020			
8/13/2020			<0.005
8/17/2020		0.042	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.042	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.05	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.047	
9/14/2021			
1/20/2022			<0.005
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			<0.005
9/9/2022			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.051	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	0.007		
2/7/2023		0.059	
9/6/2023			
9/7/2023	0.011		<0.005
9/8/2023		0.057	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.0087		<0.005
2/2/2024			
2/5/2024		0.07	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.053								
1/30/2019		<0.01							
8/27/2019									
8/28/2019									
9/11/2019	0.043								
9/12/2019		0.006							
9/18/2019			0.0031 (J)						
9/23/2019				0.0038 (J)					
10/15/2019									
10/16/2019									
10/21/2019		0.0074		0.0089	0.018				
10/22/2019	0.046								
10/24/2019			0.0021 (J)						
11/22/2019						0.018 (J)			
12/19/2019								0.066	
2/17/2020									
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0011 (J)						
8/14/2020					0.021				
8/17/2020				0.0028 (J)		0.0031 (J)			
8/19/2020								0.068	
9/22/2020									
9/24/2020			0.0004 (J)						
9/25/2020					0.0073	0.0015 (J)			
9/28/2020				0.0053				0.064	
3/1/2021									
3/4/2021			0.0017 (J)		0.0099				
3/5/2021						0.022			
3/9/2021								0.061	
3/12/2021	0.046	0.01		0.0021 (J)					
3/15/2021									
9/9/2021									
9/13/2021						0.0018 (J)			
9/14/2021	0.037	0.012	<0.005	0.0015 (J)					
9/15/2021							0.063	0.062	0.003 (J)
9/16/2021					0.011				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/18/2022									
1/20/2022	0.039		<0.005						
1/21/2022					0.011				
1/25/2022		0.013		0.0039 (J)					
1/26/2022							0.071	0.064	0.003 (J)
1/27/2022						0.0038 (J)			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.073	0.057	
9/13/2022			<0.005 (D)		0.012				0.0029 (J)
9/14/2022	0.0465 (D)								
9/16/2022		0.012 (D)		0.00175 (JD)		0.00135 (JD)			
1/31/2023							0.08	0.067	
2/1/2023									0.0033 (J)
2/2/2023	0.027								
2/3/2023					0.012				
2/6/2023			<0.005						
2/7/2023		0.015		0.0028 (J)		0.0031 (J)			
9/6/2023							0.034	0.041	0.0029 (J)
9/7/2023	0.047								
9/11/2023		0.02		0.0024 (J)					
9/12/2023			<0.005		0.015	0.0022 (J)			
1/30/2024							0.06	0.031	
1/31/2024									0.0032 (J)
2/1/2024	0.03	0.019		0.0021 (J)	0.017				
2/5/2024			0.00032 (J)			0.0018 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.025	0.0034 (J)
5/11/2017		0.0281	
5/15/2017			0.0024 (J)
6/15/2017		0.0322	0.0014 (J)
7/11/2017			0.0007 (J)
7/12/2017		0.0247	
8/8/2017			0.0007 (J)
10/24/2017		0.0267	<0.005
2/27/2018			<0.005
3/8/2018		0.027	
7/10/2018			<0.005
7/12/2018		0.024	
11/6/2018			<0.005
11/7/2018		0.018	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		0.013	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			0.00064 (J)
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		
3/2/2020			0.00037 (J)
3/9/2020		0.016	
8/11/2020			0.0012 (J)
8/13/2020		0.0051	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.011	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.0078	
3/15/2021	<0.005		
9/9/2021		0.0064	<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0048 (J)		
9/16/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/18/2022			<0.005
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		0.014	
9/7/2022			<0.005
9/8/2022		0.012	
9/12/2022			
9/13/2022	0.00063 (J)		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		0.008	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		0.0086	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	0.0083	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.193	<0.01			<0.005			
9/1/2016				0.0021 (J)					0.0553
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)		0.0561
12/8/2016								0.029	
3/28/2017	0.0033 (J)								
3/29/2017		0.184	<0.01	0.0026 (J)		<0.005			0.0534
3/30/2017					0.0005 (J)		0.0024 (J)	0.0283	
5/11/2017									
5/12/2017	0.0016 (J)								
6/15/2017									
6/16/2017	0.0011 (J)								
7/11/2017	0.0008 (J)								
7/12/2017		0.177	<0.01	0.0033 (J)	0.0004 (J)	<0.005	0.002 (J)	0.023	0.0489
10/24/2017	0.0004 (J)	0.175	<0.01						
10/25/2017				0.0021 (J)		<0.005	0.0019 (J)	0.0259	0.0514
11/15/2017					<0.005				
2/27/2018	<0.005	0.2	<0.01	<0.01		<0.005			
2/28/2018					<0.005		<0.01	0.02	0.0511
7/10/2018	<0.005								
7/11/2018				0.002 (J)		<0.005	0.0018 (J)	0.025	0.051
11/6/2018	<0.005	0.2	<0.01						
11/7/2018				<0.01 (J)	<0.005	<0.005	0.025	<0.01 (J)	0.048
8/27/2019	<0.005	0.13	0.00076 (J)	0.0021 (J)		<0.005		0.031	
8/28/2019					<0.005		0.0015 (J)		0.048
8/29/2019									
9/17/2019				0.0079					
10/15/2019	<0.005	0.17	0.0006 (J)	0.0058					
10/16/2019					<0.005	<0.005			0.046
10/17/2019							0.0018 (J)		
10/18/2019								0.023	
3/2/2020	<0.005		0.00078 (J)	0.029					
3/3/2020		0.18			<0.005	<0.005	0.0018 (J)		0.054
3/4/2020								0.023	
8/11/2020	<0.005	0.11	0.00055 (J)	0.006		<0.005			0.049
8/12/2020					<0.005				
8/13/2020							0.0024 (J)		
8/14/2020								0.026	
9/22/2020	<0.005		0.00098 (J)	0.013		<0.005			0.051
9/23/2020					0.00038 (J)		0.0018 (J)		
9/24/2020		0.086						0.028	
3/1/2021	<0.005								
3/2/2021			0.00065 (J)		<0.005	<0.005	0.0013 (J)		0.051
3/3/2021				0.01				0.016	
3/4/2021		0.071							
9/8/2021	<0.005								
9/9/2021			0.00081 (J)	0.034	<0.005	<0.005	0.0016 (J)		0.055
9/10/2021		0.076							
9/13/2021								0.019	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			0.054
1/26/2022		0.099							
9/7/2022	<0.005								
9/13/2022						<0.005	0.0016 (J)		
9/14/2022								0.016	0.052
9/15/2022		0.055	0.001 (J)	0.025	<0.005				
9/20/2022									
1/31/2023	<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	0.055
2/7/2023									
9/6/2023	<0.005								
9/8/2023			0.0011 (J)		<0.005	<0.005	0.0018 (J)		0.051
9/11/2023		0.11		0.017					
9/13/2023								0.02	
1/30/2024	<0.005								
1/31/2024					<0.005				
2/1/2024			0.00082 (J)						0.056
2/2/2024		0.064		0.015					
2/5/2024						<0.005	0.0019 (J)		
2/6/2024								0.018	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.497	0.0085 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.614	
12/8/2016			0.0095 (J)
3/28/2017			
3/29/2017		0.443	
3/30/2017	0.0255		0.0076 (J)
5/11/2017	0.0284		
5/12/2017			
6/15/2017	0.0238		
6/16/2017			
7/11/2017	0.0238		
7/12/2017		0.538	0.0092 (J)
10/24/2017	0.0292		
10/25/2017		0.432	0.0092 (J)
11/15/2017			
2/27/2018	0.042		
2/28/2018		0.459	<0.01
7/10/2018			
7/11/2018	0.02	0.47	0.0097 (J)
11/6/2018	0.024		
11/7/2018		0.42	<0.01 (J)
8/27/2019	0.0088		
8/28/2019			
8/29/2019		0.66	0.01
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0084	0.57	0.01
10/18/2019			
3/2/2020			
3/3/2020	0.0073		0.01
3/4/2020		0.84	
8/11/2020	0.0064		
8/12/2020			
8/13/2020		0.73	
8/14/2020			0.0098
9/22/2020		0.47	
9/23/2020	0.0062		
9/24/2020			0.01
3/1/2021			
3/2/2021	0.0055	0.77	
3/3/2021			0.0087
3/4/2021			
9/8/2021			
9/9/2021	0.0048 (J)		0.0096
9/10/2021		0.45	
9/13/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.004 (J)		0.0076
1/21/2022		0.95	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.75	0.0081
9/20/2022	0.0028 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0024 (J)		
2/7/2023		1	0.0088
9/6/2023			
9/8/2023			
9/11/2023		1.4	0.0097
9/13/2023	0.0024 (J)		
1/30/2024			
1/31/2024			0.0097
2/1/2024	0.0027 (J)	1.3	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0568	0.0896
8/31/2016							0.055		
9/1/2016					0.536	0.539			
9/2/2016	0.0102								
9/7/2016				0.0695					
12/6/2016							0.0432	0.0873	0.122
12/8/2016	0.0079 (J)			0.0652	0.381	0.575			
3/28/2017			0.0018 (J)				0.04		0.124
3/29/2017	0.0097 (J)							0.0902	
3/30/2017		<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	0.136
7/12/2017		<0.005							
7/13/2017	0.0106			0.0481	0.396	0.531			
10/24/2017			0.0017 (J)					0.123	0.151
10/25/2017	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	0.163
2/28/2018	<0.01			0.0167					
3/1/2018		<0.005			0.401				
3/2/2018						0.49			
7/11/2018				0.019					0.18
7/12/2018	0.011	<0.005			0.36	0.46			
11/6/2018			<0.01 (J)				0.019	0.077	0.2
11/7/2018	<0.01 (J)			0.02	0.35	0.48			
11/8/2018		<0.01 (J)							
8/27/2019			0.0018 (J)				0.02		0.24
8/28/2019				0.029				0.051	
8/29/2019	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				0.03	0.26				0.21
10/18/2019	0.0084	<0.005				0.41			
3/2/2020			0.0021 (J)				0.028		
3/3/2020	0.0098							0.044	0.2
3/4/2020		0.00043 (J)		0.014	0.28	0.42			
8/11/2020									0.22
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	0.0087								
9/22/2020			0.0014 (J)	0.014			0.02		0.16
9/23/2020					0.17	0.37		0.04	
9/24/2020	0.01	<0.005							
3/1/2021			0.002 (J)						
3/2/2021							0.021	0.033	0.18
3/3/2021	0.0078	0.00039 (J)		0.0087	0.2	0.36			
9/9/2021		0.00049 (J)							
9/10/2021	0.0076		0.0019 (J)		0.23	0.36	0.022		0.21
9/13/2021				0.008				0.028	
1/20/2022	0.0075	0.00058 (J)		0.0056					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.24				
1/24/2022			0.0019 (J)			0.34	0.025		
1/25/2022								0.019	
1/26/2022									0.22
9/13/2022				0.0069	0.21	0.31			
9/14/2022							0.027		
9/15/2022								0.0046 (J)	
9/16/2022	0.0098								
9/19/2022			0.0018 (J)						0.25
9/20/2022		0.00053 (J)							
2/1/2023				0.0068					
2/3/2023			0.0018 (J)		0.21	0.31			0.21
2/6/2023	0.0058	0.00064 (J)							
2/7/2023							0.021	0.0018 (J)	
9/11/2023	0.0074	0.00074 (J)							
9/12/2023					0.18			0.003 (J)	
9/13/2023			0.0018 (J)	0.008		0.31	0.016		
9/14/2023									
1/30/2024				0.0076					
1/31/2024	0.0067	0.0007 (J)							
2/1/2024			0.0016 (J)				0.015	0.0013 (J)	
2/5/2024					0.18	0.27			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.0052
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.0039 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020	1.4 (U)								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									2.31
9/9/2021									
9/10/2021			1.74						
9/13/2021	0.774 (U)	1.8			0.625 (U)	0.813 (U)			
9/14/2021				9.6			0.917 (U)	4.39	3.68
1/20/2022									1.21 (U)
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)								
9/9/2022									
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									2.22
2/2/2023	0.981		0.676 (U)						
2/3/2023		0.426 (U)		14.8					1.81
2/6/2023						0.459 (U)			
2/7/2023					0.642 (U)		0.975	6.24	
9/6/2023	0.326 (U)								
9/7/2023									
9/8/2023		1.57							
9/11/2023			1.25		0.61 (U)				
9/12/2023						0.907 (U)			1.74
9/13/2023				13.9			1.12	8.6	
1/31/2024	0.0563 (U)								
2/1/2024						0.666 (U)	1.11		
2/2/2024		1.15	0.277 (U)		0.203 (U)				
2/5/2024				15.2				1.33	1.93

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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)
9/25/2020			
9/28/2020		1.39	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		1.01 (U)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			1.18 (U)
4/15/2021			
9/9/2021			1.7
9/10/2021			
9/13/2021		0.854 (U)	
9/14/2021			
1/20/2022			1.71
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		0.831 (U)	
9/8/2022			
9/9/2022			1.96
9/13/2022			
9/14/2022	7.94		
9/15/2022			
9/16/2022		0.752 (U)	
9/19/2022			
2/2/2023			1.6
2/3/2023			
2/6/2023	8.22		
2/7/2023		1.01 (U)	
9/6/2023			
9/7/2023	14.9		2.24
9/8/2023		0.859 (U)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	14.6		2.08
2/2/2024			
2/5/2024		0.988 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	2.14 (U)								
1/30/2019		0.975 (U)							
8/27/2019									
8/28/2019									
10/15/2019									
10/16/2019									
10/21/2019		1.07 (U)		0.63 (U)	0.792 (U)				
10/22/2019	1.28 (U)								
10/24/2019			1.87						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			2.17						
8/14/2020					0.95 (U)				
8/17/2020				0.662 (U)		2.47			
8/19/2020								1.19 (U)	
9/22/2020									
9/24/2020			0.761 (U)						
9/25/2020					0.0359 (U)	0.925 (U)			
9/28/2020				0.747 (U)				1.54	
3/1/2021									
3/4/2021			2.16		1.15 (U)				
3/5/2021						2.84			
3/9/2021								0.786 (U)	
3/12/2021									
9/9/2021									
9/13/2021						0.771 (U)			
9/14/2021	1.68	0.421 (U)	0.617 (U)	1.03 (U)					
9/15/2021							1.39	1.84	2.11
9/16/2021					0.442 (U)				
1/18/2022									
1/20/2022	0.846 (U)		0.92						
1/21/2022					0.549 (U)				
1/25/2022		0 (U)		0.33 (U)					
1/26/2022							1.27 (U)	0.758 (U)	1.47 (U)
1/27/2022						1.18			
1/28/2022									
9/7/2022									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							2.34	1.09	
9/13/2022			1.11		0.893 (U)				1.11
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									1.33
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			
9/6/2023							1.41	1.05	1.06 (U)
9/7/2023	0.988 (U)								
9/11/2023		0.736 (U)		0.212 (U)					
9/12/2023			1.16		0.0781 (U)	1.16			
1/30/2024							1.63	1.04 (U)	
1/31/2024									1.4
2/1/2024	0.922 (U)	0.294 (U)		0.485 (U)	0.466 (U)				
2/5/2024			0.952 (U)			1.09 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		6.36	0.866 (U)
5/11/2017		3.45	
5/15/2017			0.288 (U)
6/15/2017		4.58	1.01 (U)
7/11/2017			0.254 (U)
7/12/2017		4.37	
8/8/2017			1.48
10/24/2017		4.46	0.472 (U)
2/27/2018			1.22
3/8/2018		2.14	
7/10/2018			0.362 (U)
7/12/2018		4.65	
11/6/2018			0.859 (U)
11/7/2018		3.05	
1/28/2019			
1/30/2019			
8/27/2019			1.97
8/28/2019		2.68	
10/15/2019			0.319 (U)
10/16/2019		1.89	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			0.419 (U)
3/9/2020		3.51	
8/11/2020			0.812 (U)
8/13/2020		1.04	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		2.27	0.45 (U)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			0.552 (U)
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		1.63	
9/9/2021		2.72	0.779 (U)
9/13/2021			
9/14/2021			
9/15/2021	2.2		
9/16/2021			
1/18/2022			1.26
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.52 (U)		
1/27/2022			
1/28/2022		2.1	
9/7/2022			0.504 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		1.69	
9/12/2022			
9/13/2022	2.03		
9/14/2022			
9/16/2022			
1/31/2023	0.873 (U)		0.416 (U)
2/1/2023		1.92	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	1.22		0.651 (U)
9/7/2023		2.16	
9/11/2023			
9/12/2023			
1/30/2024	0.597 (U)	0.478 (U)	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		1.08	1.09			0.997 (U)			
9/1/2016				1.11					1.07 (U)
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		0.903 (U)
12/8/2016								1.65	
3/28/2017	0.257 (U)								
3/29/2017		1.24	0.727	0.0726 (U)		0.313 (U)			0.302 (U)
3/30/2017					1.59		0.276 (U)	0.865 (U)	
5/11/2017									
5/12/2017	0.165 (U)								
6/15/2017									
6/16/2017	0.732 (U)								
7/11/2017	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)	0.283 (U)
10/24/2017	0.724 (U)	0.838 (U)	0.98 (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	0.714 (U)	1.55	1.14	0.83		0.695 (U)			
2/28/2018					0.721 (U)		1.25	1.1 (U)	0.813 (U)
7/10/2018	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)	0.751 (U)
11/6/2018	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)	1.02
8/27/2019	1.3 (U)	1.58	2.13	0.434 (U)		1.17 (U)		1.12	
8/28/2019					1.43		1.01 (U)		0.661 (U)
8/29/2019									
10/15/2019	1.21 (U)	0.831 (U)	0.622 (U)	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	1.3		1.3	1.2 (U)					
3/3/2020		1.69			1.03	1.44	0.293 (U)		0.383 (U)
3/4/2020								0.493 (U)	
8/11/2020	0.965 (U)	1.45	1.02	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	0.216 (U)		0.502 (U)	0.515 (U)		1.2 (U)			0.96 (U)
9/23/2020					0.935 (U)		1.69 (U)		
9/24/2020		1.39						0.369 (U)	
3/1/2021	0.389 (U)								
3/2/2021			0.666 (U)		1.12 (U)	0.861 (U)	0.599 (U)		0.775 (U)
3/3/2021				1.85				0.66 (U)	
3/4/2021		1.48							
9/8/2021	0.051 (U)								
9/9/2021			1.2 (U)	1.78	1.23 (U)	0.643 (U)	0.624 (U)		0.239 (U)
9/10/2021		0.882 (U)							
9/13/2021								0.85 (U)	
1/18/2022	0.729 (U)								

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/20/2022									
1/21/2022									
1/24/2022							0.534 (U)	0.692 (U)	
1/25/2022			0.983 (U)	0.739 (U)	0.254 (U)	0.229 (U)			0.415 (U)
1/26/2022		1.21							
9/7/2022	0.588 (U)								
9/13/2022						0.538 (U)	0.761 (U)		
9/14/2022								0.489 (U)	0.674 (U)
9/15/2022		0.953	1.12	0.52 (U)	1.01				
9/20/2022									
1/31/2023	0.314 (U)								
2/1/2023					0.819 (U)	0.794 (U)			
2/2/2023		1.47					0.991		
2/6/2023			0.442 (U)	1 (U)				0.809 (U)	1.23
2/7/2023									
9/6/2023	0.572 (U)								
9/8/2023			1.2		0.771 (U)	0.75 (U)	0.673 (U)		0.371 (U)
9/11/2023		1.09		1.02					
9/13/2023								1.02 (U)	
1/30/2024	0.305 (U)								
1/31/2024					1.04 (U)				
2/1/2024			0.104 (U)						0.347 (U)
2/2/2024		1.5		0.686 (U)					
2/5/2024						0.651 (U)	0.698 (U)		
2/6/2024								0.234 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		1.48	0.908 (U)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		1.26 (U)	
12/8/2016			1.03 (U)
3/28/2017			
3/29/2017		0.373 (U)	
3/30/2017	0.737 (U)		0.884 (U)
5/11/2017	0.892 (U)		
5/12/2017			
6/15/2017	0.979 (U)		
6/16/2017			
7/11/2017	0.871 (U)		
7/12/2017		0.91 (U)	1.22
10/24/2017	1.19		
10/25/2017		0.853 (U)	1.07 (U)
11/15/2017			
2/27/2018	0.863 (U)		
2/28/2018		0.727 (U)	1.45
7/10/2018			
7/11/2018	0.663 (U)	1.3	1.59
11/6/2018	0.664		
11/7/2018		0.746 (U)	1.16
8/27/2019	1.6		
8/28/2019			
8/29/2019		0.996 (U)	0.582 (U)
10/15/2019			
10/16/2019			
10/17/2019	1.74	2	0.427 (U)
10/18/2019			
3/2/2020			
3/3/2020	1.23		0.567 (U)
3/4/2020		1.67	
8/11/2020	1.37		
8/12/2020			
8/13/2020		1.77	
8/14/2020			0.602 (U)
9/22/2020		1.61 (U)	
9/23/2020	1.96 (U)		
9/24/2020			0.396 (U)
3/1/2021			
3/2/2021	1.54 (U)	1.76	
3/3/2021			0.248 (U)
3/4/2021			
9/8/2021			
9/9/2021	1.22 (U)		0.702 (U)
9/10/2021		0.689 (U)	
9/13/2021			
1/18/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/20/2022	0.722 (U)		0.337 (U)
1/21/2022		0.826 (U)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		1.38	0.771 (U)
9/20/2022	0.45 (U)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.5 (U)		
2/7/2023		1.92	0.582 (U)
9/6/2023			
9/8/2023			
9/11/2023		1.45	0.429 (U)
9/13/2023	0.864 (U)		
1/30/2024			
1/31/2024			0.542 (U)
2/1/2024	1.06	1.38	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	1.54								
9/7/2016				0.876 (U)					
12/6/2016							0.348 (U)	0.407 (U)	0.828 (U)
12/8/2016	0.505 (U)			0.955	2.88	2.87			
3/28/2017			1.36				0.693 (U)		1.06
3/29/2017	0.715 (U)							0.28 (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	0.209 (U)	0.62 (U)
7/12/2017		0.703 (U)							
7/13/2017	1.14			1.08 (U)	2.37	1.78			
10/24/2017			1.24					0.615 (U)	1.21
10/25/2017	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)	1.79
2/28/2018	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				0.924 (U)					1.81
7/12/2018	0.981 (U)	0.918 (U)			1.73	1.81			
11/6/2018			1.2				1.13	0.577 (U)	1.13
11/7/2018	0.832 (U)			0.654 (U)	1.72	1.94			
11/8/2018		1.47							
8/27/2019			1.79				1.81		1.55
8/28/2019				0.883 (U)				0.815 (U)	
8/29/2019	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				1.38	2.58				0.702 (U)
10/18/2019	1.1 (U)	1.32				1.42			
3/2/2020			1.99				2.28		
3/3/2020	0.517 (U)							0.481 (U)	1.37
3/4/2020		1.39		0.722 (U)	1.68	1.31			
8/11/2020									0.819 (U)
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	1.83								
9/22/2020			1.43 (U)	1.03 (U)			1.4 (U)		1.15 (U)
9/23/2020					2.3 (U)	1.51 (U)		0.8 (U)	
9/24/2020	1.02 (U)	1.49							
3/1/2021			1.05 (U)						
3/2/2021							0.971 (U)	0.751 (U)	1.29 (U)
3/3/2021	0.547 (U)	1.05 (U)		0.92 (U)	1.27 (U)	1.41			
9/9/2021		1.81							
9/10/2021	0.616 (U)		1.46		2.32	2.21	1.15		1.28
9/13/2021				1.15 (U)				0.916 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/20/2022	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									0.789 (U)
9/13/2022				0.829 (U)	1.97	1.42			
9/14/2022							0.665 (U)		
9/15/2022								0.896	
9/16/2022	1.01								
9/19/2022			1.55						1.38
9/20/2022		1.17 (U)							
2/1/2023				0.599 (U)					
2/3/2023			1.51		1.8	1.4			0.949 (U)
2/6/2023	0.975	1.44							
2/7/2023							1.26	0.737 (U)	
9/11/2023	0.58 (U)	1.28							
9/12/2023					2.19			0.63 (U)	
9/13/2023			0.964 (U)	1.59		1.22 (U)	1.23 (U)		
9/14/2023									
1/30/2024				0.822 (U)					
1/31/2024	0.395 (U)	1.1							
2/1/2024			1.39				1.18	1.18	
2/5/2024					1.39	1.55			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	2.41
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	2.43

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.1								
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									<0.1
9/9/2021									
9/10/2021			0.083 (J)						
9/13/2021	<0.1	0.051 (J)			0.052 (J)	<0.1			
9/14/2021				0.5			<0.1	0.57	<0.1
1/20/2022									<0.1
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									0.057 (J)
2/2/2023	0.052 (J)		0.091 (J)						
2/3/2023		0.11		0.36					0.052 (J)
2/6/2023						<0.1			
2/7/2023					0.067 (J)		<0.1	0.36	
9/6/2023	<0.1								
9/7/2023									
9/8/2023		<0.1							
9/11/2023			0.1		0.067 (J)				
9/12/2023						<0.1			<0.1
9/13/2023				0.3			<0.1	0.36	
1/31/2024	0.063 (J)								
2/1/2024						<0.1	0.13		
2/2/2024		0.063 (J)	0.081 (J)		0.059 (J)				
2/5/2024				0.29				0.4	0.061 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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)
9/25/2020			
9/28/2020		0.098 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.34	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.11
4/15/2021			
9/9/2021			0.14
9/10/2021			
9/13/2021		0.2	
9/14/2021			
1/20/2022			0.099 (J)
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			0.13
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.22	
9/19/2022			
2/2/2023			0.16
2/3/2023			
2/6/2023	0.21		
2/7/2023		0.19	
9/6/2023			
9/7/2023	0.22		0.13
9/8/2023		0.24	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.18		0.14
2/2/2024			
2/5/2024		0.34	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	0.45								
1/30/2019		0.51							
3/12/2019									
3/13/2019									
8/27/2019									
8/28/2019									
10/15/2019									
10/16/2019									
10/21/2019		0.3 (J)		0.2 (J)	0.13 (J)				
10/22/2019	0.2 (J)								
10/24/2019			0.096 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<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			<0.1						
9/25/2020					<0.1	<0.1			
9/28/2020				<0.1				0.3	
3/1/2021									
3/4/2021			<0.1		0.071 (J)				
3/5/2021						<0.1			
3/9/2021								0.34	
3/12/2021									
9/9/2021									
9/13/2021						<0.1			
9/14/2021	0.16	0.22	0.078 (J)	0.052 (J)					
9/15/2021							0.18	0.34	0.085 (J)
9/16/2021					0.066 (J)				
1/18/2022									
1/20/2022	0.12		<0.1						
1/21/2022					<0.1				
1/25/2022		0.12		<0.1					
1/26/2022							0.3	0.41	0.088 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/27/2022						<0.1			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.24	0.4	
9/13/2022			0.08 (J)		0.081 (J)				0.14
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									0.11
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			
9/6/2023							0.26	0.26	0.085 (J)
9/7/2023	0.12								
9/11/2023		0.12		0.11					
9/12/2023			0.069 (J)		0.087 (J)	<0.1			
1/30/2024							0.23	0.18	
1/31/2024									0.093 (J)
2/1/2024	0.12	0.1		0.093 (J)	0.073 (J)				
2/5/2024			0.067 (J)			<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.12 (J)	1.2 (O)
5/11/2017		0.07 (J)	
5/15/2017			0.005 (J)
6/15/2017		0.19 (J)	0.02 (J)
7/11/2017			0.06 (J)
7/12/2017		0.1 (J)	
8/8/2017			0.04 (J)
10/24/2017		0.06 (J)	<0.1
11/15/2017		0.05 (J)	
2/27/2018			<0.1
3/8/2018		<0.3	
7/10/2018			0.082 (J)
7/12/2018		0.071 (J)	
11/6/2018			<0.1
11/7/2018		<0.3	
1/28/2019			
1/30/2019			
3/12/2019			0.039 (J)
3/13/2019		0.13 (J)	
8/27/2019			<0.1
8/28/2019		0.42	
10/15/2019			<0.1
10/16/2019		0.11 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.1
3/9/2020		0.1 (J)	
8/11/2020			<0.1
8/13/2020		0.062 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.099 (J)	<0.1
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.076 (J)	
9/9/2021		0.099 (J)	<0.1
9/13/2021			
9/14/2021			
9/15/2021	0.098 (J)		
9/16/2021			
1/18/2022			<0.1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	0.13		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/27/2022			
1/28/2022		0.08 (J)	
9/7/2022			0.061 (J)
9/8/2022		0.11	
9/12/2022			
9/13/2022	0.18		
9/14/2022			
9/16/2022			
1/31/2023	0.19		0.053 (J)
2/1/2023		0.1	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.1		<0.1
9/7/2023		0.082 (J)	
9/11/2023			
9/12/2023			
1/30/2024	0.13	0.07 (J)	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		1	0.06 (J)			0.06 (J)			
9/1/2016				0.02 (J)					0.75
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)		0.37
12/8/2016								0.31	
3/28/2017	0.06 (J)								
3/29/2017		1.5	0.04 (J)	0.1 (J)		0.02 (J)			0.35
3/30/2017					0.12 (J)		<0.1	0.1 (J)	
5/11/2017									
5/12/2017	<0.1								
6/15/2017									
6/16/2017	0.008 (J)								
7/11/2017	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)	0.34
10/24/2017	<0.1	2.1	<0.1						
10/25/2017				0.6		<0.1	0.26 (J)	0.49	0.9
11/15/2017	<0.1	1.4			0.44				
2/27/2018	<0.1	2.3	<0.1	0.34		<0.1			
2/28/2018					0.18		<0.1	0.54	1.2
7/10/2018	<0.1								
7/11/2018				<0.1		<0.1	<0.1	0.15 (J)	0.37
11/6/2018	<0.1	2	<0.1						
11/7/2018				<0.3 (J)	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)
3/12/2019	<0.1	1.7	0.052 (J)	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	1.4	<0.1	<0.1		<0.1		0.24 (J)	
8/28/2019					0.091 (J)		<0.1		0.2
8/29/2019									
10/15/2019	<0.1	1.4	<0.1	<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	<0.1		0.064 (J)	0.071 (J)					
3/3/2020		1.5			0.078 (J)	<0.1	<0.1		0.056 (J)
3/4/2020								<0.1	
8/11/2020	<0.1	1.4	<0.1	<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	<0.1		<0.1			0.084 (J)
9/23/2020					0.058 (J)		<0.1		
9/24/2020		0.97						0.056 (J)	
3/1/2021	<0.1								
3/2/2021			<0.1		0.084 (J)	<0.1	<0.1		0.19
3/3/2021				0.085 (J)				0.085 (J)	
3/4/2021		1.8							
9/8/2021	<0.1								
9/9/2021			<0.1	0.099 (J)	0.083 (J)	<0.1	<0.1		0.18

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/10/2021		2.2							
9/13/2021								0.063 (J)	
1/18/2022	<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			0.16
1/26/2022		1.8							
9/7/2022	0.056 (J)								
9/13/2022						0.059 (J)	0.065 (J)		
9/14/2022								0.1	0.18
9/15/2022		0.84	0.064 (J)	0.078 (J)	0.095 (J)				
9/20/2022									
1/31/2023	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)	0.22
2/7/2023									
9/6/2023	<0.1								
9/8/2023			<0.1		0.055 (J)	<0.1	<0.1		0.17
9/11/2023		1.3		0.13					
9/13/2023								0.1	
1/30/2024	<0.1								
1/31/2024					0.079 (J)				
2/1/2024			<0.1						0.19
2/2/2024		1.2		0.12					
2/5/2024						0.054 (J)	0.065 (J)		
2/6/2024								0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.66	0.07 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.66	
12/8/2016			0.14 (J)
3/28/2017			
3/29/2017		0.34	
3/30/2017	0.06 (J)		<0.1
5/11/2017	0.06 (J)		
5/12/2017			
6/15/2017	0.07 (J)		
6/16/2017			
7/11/2017	0.04 (J)		
7/12/2017		0.41	0.04 (J)
10/24/2017	0.43		
10/25/2017		0.68	0.34
11/15/2017			
2/27/2018	0.28		
2/28/2018		0.76	<0.1
7/10/2018			
7/11/2018	0.6	1.3	<0.1
11/6/2018	<0.1		
11/7/2018		<0.3 (J)	<0.1
3/12/2019	0.052 (J)		
3/13/2019		0.45	0.043 (J)
3/14/2019			
8/27/2019	<0.1		
8/28/2019			
8/29/2019		0.78	0.079 (J)
10/15/2019			
10/16/2019			
10/17/2019	0.042 (J)	0.26 (J)	<0.1
10/18/2019			
3/2/2020			
3/3/2020	<0.1		<0.1
3/4/2020		1.5	
8/11/2020	<0.1		
8/12/2020			
8/13/2020		0.9	
8/14/2020			<0.1
9/22/2020		0.15	
9/23/2020	<0.1		
9/24/2020			<0.1
3/1/2021			
3/2/2021	<0.1	1.4	
3/3/2021			<0.1
3/4/2021			
9/8/2021			
9/9/2021	0.053 (J)		<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/10/2021		0.25	
9/13/2021			
1/18/2022			
1/20/2022	<0.1		<0.1
1/21/2022		1.3	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.69	0.087 (J)
9/20/2022	0.076 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.072 (J)		
2/7/2023		1.1	0.059 (J)
9/6/2023			
9/8/2023			
9/11/2023		1.5	0.054 (J)
9/13/2023	0.083 (J)		
1/30/2024			
1/31/2024			<0.1
2/1/2024	0.067 (J)	1.4	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.3								
9/7/2016				0.02 (J)					
12/6/2016							0.76	0.47	1.1
12/8/2016	0.12 (J)			0.06 (J)	1.1	1.6			
3/28/2017			0.17 (J)				1.2		1.1
3/29/2017	0.11 (J)							0.51	
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	0.2 (J)	1.1
7/12/2017		0.22 (J)							
7/13/2017	0.09 (J)			<0.1	0.84	1.1			
10/24/2017			<0.1					0.82	1.7
10/25/2017	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	1.2
2/28/2018	<0.1			<0.1					
3/1/2018		0.18			1.4				
3/2/2018						1.1			
7/11/2018				<0.1					1.3
7/12/2018	0.13 (J)	0.25 (J)			0.96	0.65			
11/6/2018			<0.1				<0.3 (J)	0.35	1.1
11/7/2018	<0.1			<0.1	0.74	0.63			
11/8/2018		<0.3 (J)							
3/12/2019			0.082 (J)				0.31	0.35	0.97
3/14/2019	0.042 (J)	0.092 (J)		<0.1	1.6	1.4			
8/27/2019			<0.1				0.32		0.68
8/28/2019				<0.1				0.098 (J)	
8/29/2019	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	0.46				1.2
10/18/2019	<0.1	0.079 (J)				0.46			
3/2/2020			<0.1				0.33		
3/3/2020	<0.1							<0.1	1.4
3/4/2020		0.075 (J)		<0.1	0.74	0.7			
8/11/2020									1.3
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								
9/22/2020			<0.1	<0.1			0.12		0.99
9/23/2020					0.11	0.32		<0.1	
9/24/2020	<0.1	0.075 (J)							
3/1/2021			<0.1						
3/2/2021							0.15	0.059 (J)	0.93
3/3/2021	<0.1	0.063 (J)		<0.1	0.71	0.67			
9/9/2021		0.084 (J)							

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/10/2021	<0.1		<0.1		0.22	0.47	0.16		2
9/13/2021				<0.1				0.069 (J)	
1/20/2022	<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									1.2
9/13/2022				<0.1	0.47	0.43			
9/14/2022							0.27		
9/15/2022								0.077 (J)	
9/16/2022	0.068 (J)								
9/19/2022			0.061 (J)						0.8
9/20/2022		0.11							
2/1/2023				<0.1					
2/3/2023			0.096 (J)		0.45	0.48			0.9
2/6/2023	0.057 (J)	0.076 (J)							
2/7/2023							0.22	0.13	
3/21/2023									
4/10/2023									
9/11/2023	0.054 (J)	0.1							
9/12/2023					0.51			0.091 (J)	
9/13/2023			<0.1	<0.1		0.51	0.14		
9/14/2023									
1/30/2024				<0.1					
1/31/2024	<0.1	0.074 (J)							
2/1/2024			<0.1				0.12	0.064 (J)	
2/5/2024					0.53	0.43			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	0.099 (J)
4/10/2023	0.13
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.1
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.068 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	8.8E-05 (J)								
9/24/2020									
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)	
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)								
3/12/2021									
4/15/2021									0.00019 (J)
9/9/2021									
9/10/2021			<0.001						
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<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									<0.001
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					<0.001
2/6/2023						<0.001			
2/7/2023					<0.001		<0.001	<0.001	
9/6/2023	<0.001								
9/7/2023									
9/8/2023		<0.001							
9/11/2023			<0.001		<0.001				
9/12/2023						<0.001			<0.001
9/13/2023				<0.001			0.0025	<0.001	
1/31/2024	<0.001								
2/1/2024						<0.001	<0.001		
2/2/2024		<0.001	<0.001		<0.001				
2/5/2024				0.00047 (J)				<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00022 (J)	
9/24/2020			<0.001
9/25/2020			
9/28/2020		9.1E-05 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0001 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/15/2021			
9/9/2021			<0.001
9/10/2021			
9/13/2021		<0.001	
9/14/2021			
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			<0.001
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.001	
9/19/2022			
2/2/2023			<0.001
2/3/2023			
2/6/2023	<0.001		
2/7/2023		<0.001	
9/6/2023			
9/7/2023	<0.001		<0.001
9/8/2023		<0.001	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.001		<0.001
2/2/2024			
2/5/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.001								
1/30/2019		<0.001							
8/27/2019									
8/28/2019									
9/11/2019	4.7E-05 (J)								
9/12/2019		<0.001							
9/18/2019			0.00032 (J)						
9/23/2019				0.00016 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.001		<0.001	0.00012 (J)				
10/22/2019	7.3E-05 (J)								
10/24/2019			<0.001						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0016 (J)						
8/14/2020					0.00092 (J)				
8/17/2020				5.9E-05 (J)		0.00081 (J)			
8/19/2020								0.00012 (J)	
9/22/2020									
9/24/2020			0.00021 (J)						
9/25/2020					6.5E-05 (J)	0.00035 (J)			
9/28/2020				0.00011 (J)				0.00012 (J)	
3/1/2021									
3/4/2021			0.00029 (J)		0.00017 (J)				
3/5/2021						0.012			
3/9/2021								<0.001	
3/12/2021									
9/9/2021									
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/18/2022									
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						0.0022			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.001	<0.001	
9/13/2022			<0.001		<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									<0.001
2/2/2023	<0.001								
2/3/2023					<0.001				
2/6/2023			<0.001						
2/7/2023		<0.001		<0.001		<0.001			
9/6/2023							<0.001	<0.001	<0.001
9/7/2023	<0.001								
9/11/2023		<0.001		<0.001					
9/12/2023			<0.001		<0.001	0.0009 (J)			
1/30/2024							<0.001	<0.001	
1/31/2024									<0.001
2/1/2024	<0.001	<0.001		<0.001	<0.001				
2/5/2024			0.00066 (J)			0.00073 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.001	9E-05 (J)
5/11/2017		<0.001	
5/15/2017			0.0001 (J)
6/15/2017		<0.001	0.0002 (J)
7/11/2017			<0.001
7/12/2017		<0.001	
8/8/2017			7E-05 (J)
10/24/2017		<0.001	<0.001
2/27/2018			<0.001
3/8/2018		<0.001	
7/10/2018			<0.001
7/12/2018		<0.001	
11/6/2018			<0.001
11/7/2018		<0.001	
1/28/2019			
1/30/2019			
8/27/2019			7.8E-05 (J)
8/28/2019		<0.001	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.001
10/16/2019		<0.001	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			7.4E-05 (J)
3/9/2020		<0.001	
8/11/2020			0.0003 (J)
8/13/2020		<0.001	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.001	7.8E-05 (J)
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.001
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.001	
9/9/2021		<0.001	<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001		
9/16/2021			
1/18/2022			<0.001
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.001		
1/27/2022			
1/28/2022		<0.001	
9/7/2022			<0.001
9/8/2022		<0.001	
9/12/2022			
9/13/2022	<0.001		
9/14/2022			
9/16/2022			
1/31/2023	<0.001		<0.001
2/1/2023		<0.001	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.001		<0.001
9/7/2023		<0.001	
9/11/2023			
9/12/2023			
1/30/2024	<0.001	<0.001	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.005	<0.001			<0.001			
9/1/2016				<0.001					<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)		<0.001
12/8/2016								<0.001	
3/28/2017	<0.001								
3/29/2017		<0.005	<0.001	<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)								
6/15/2017									
6/16/2017	<0.001								
7/11/2017	<0.001								
7/12/2017		<0.005	<0.001	<0.001	<0.001	<0.001	0.0001 (J)	<0.001	<0.001
10/24/2017	<0.001	<0.005	<0.001						
10/25/2017				<0.001		<0.001	<0.001	<0.001	<0.001
11/15/2017					<0.001				
2/27/2018	<0.001	<0.005	<0.001	<0.001		<0.001			
2/28/2018					<0.001		<0.001	<0.001	<0.001
7/10/2018	<0.001								
7/11/2018				<0.001		<0.001	<0.001	<0.001	<0.001
11/6/2018	<0.001	<0.005	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/27/2019	<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)		0.00026 (J)
8/29/2019									
9/17/2019				<0.001					
10/15/2019	<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								7.4E-05 (J)	
3/2/2020	<0.001		0.00015 (J)	<0.001					
3/3/2020		0.00011 (J)			<0.001	<0.001	<0.001		7E-05 (J)
3/4/2020								0.00013 (J)	
8/11/2020	<0.001	7E-05 (J)	5.3E-05 (J)	<0.001		9.6E-05 (J)			5.3E-05 (J)
8/12/2020					<0.001				
8/13/2020							0.0012 (J)		
8/14/2020								0.00017 (J)	
9/22/2020	<0.001		0.0001 (J)	0.00011 (J)		4.4E-05 (J)			0.00016 (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								
3/2/2021			<0.001		<0.001	8.3E-05 (J)	<0.001		4.5E-05 (J)
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							
9/13/2021								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			<0.001
1/26/2022		<0.005							
9/7/2022	<0.001								
9/13/2022						<0.001	<0.001		
9/14/2022								<0.001	<0.001
9/15/2022		<0.005	<0.001	<0.001	<0.001				
9/20/2022									
1/31/2023	<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	<0.001
2/7/2023									
9/6/2023	<0.001								
9/8/2023			<0.001		<0.001	<0.001	<0.001		<0.001
9/11/2023		<0.005		<0.001					
9/13/2023								<0.001	
1/30/2024	<0.001								
1/31/2024					<0.001				
2/1/2024			<0.001						<0.001
2/2/2024		<0.005		<0.001					
2/5/2024						<0.001	<0.001		
2/6/2024								<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	0.0002 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.01	
12/8/2016			<0.001
3/28/2017			
3/29/2017		<0.01	
3/30/2017	0.0001 (J)		0.0004 (J)
5/11/2017	9E-05 (J)		
5/12/2017			
6/15/2017	0.0001 (J)		
6/16/2017			
7/11/2017	<0.001		
7/12/2017		<0.01	0.0001 (J)
10/24/2017	<0.001		
10/25/2017		<0.01	<0.001
11/15/2017			
2/27/2018	<0.001		
2/28/2018		<0.01	<0.001
7/10/2018			
7/11/2018	<0.001	<0.01	<0.001
11/6/2018	<0.001		
11/7/2018		<0.01	<0.001
8/27/2019	6E-05 (J)		
8/28/2019			
8/29/2019		0.00015 (J)	0.00023 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	8.6E-05 (J)	9.7E-05 (J)	4.6E-05 (J)
10/18/2019			
3/2/2020			
3/3/2020	<0.001		0.00015 (J)
3/4/2020		0.00068 (J)	
8/11/2020	6.4E-05 (J)		
8/12/2020			
8/13/2020		0.00044 (J)	
8/14/2020			<0.001
9/22/2020		0.00013 (J)	
9/23/2020	9.4E-05 (J)		
9/24/2020			0.00014 (J)
3/1/2021			
3/2/2021	0.00014 (J)	0.00047 (J)	
3/3/2021			<0.001
3/4/2021			
9/8/2021			
9/9/2021	<0.001		<0.001
9/10/2021		<0.01	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.001		<0.001
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.01	<0.001
9/20/2022	<0.001		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001		
2/7/2023		<0.01	<0.001
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.001
9/13/2023	<0.001		
1/30/2024			
1/31/2024			<0.001
2/1/2024	<0.001	<0.01	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.001	<0.005
8/31/2016							0.0002 (J)		
9/1/2016					0.0005 (J)	0.0008 (J)			
9/2/2016	<0.001								
9/7/2016				0.0002 (J)					
12/6/2016							0.0004 (J)	<0.001	<0.005
12/8/2016	<0.001			0.0002 (J)	<0.001	0.0019 (J)			
3/28/2017			0.0002 (J)				<0.001		<0.005
3/29/2017	<0.001							0.0001 (J)	
3/30/2017		<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	<0.005
7/12/2017		<0.001							
7/13/2017	<0.001			0.0004 (J)	0.0007 (J)	0.002 (J)			
10/24/2017			<0.001					<0.001	<0.005
10/25/2017	<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	<0.005
2/28/2018	<0.001			<0.001					
3/1/2018		<0.001			<0.001				
3/2/2018						<0.001			
7/11/2018				0.00052 (J)					<0.005
7/12/2018	<0.001	<0.001			0.001 (J)	0.0014 (J)			
11/6/2018			<0.001				<0.001	<0.001	<0.005
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)				5.1E-05 (J)		<0.005
8/28/2019				0.00036 (J)				8.2E-05 (J)	
8/29/2019	<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				0.00026 (J)	0.0011 (J)				<0.005
10/18/2019	<0.001	<0.001				0.00095 (J)			
3/2/2020			<0.001				5.1E-05 (J)		
3/3/2020	<0.001							0.00023 (J)	0.00017 (J)
3/4/2020		<0.001		0.0001 (J)	0.00088 (J)	0.0012 (J)			
8/11/2020									<0.005
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								
9/22/2020			<0.001	0.00074 (J)			4.8E-05 (J)		0.00015 (J)
9/23/2020					0.00053 (J)	0.001 (J)		0.00011 (J)	
9/24/2020	<0.001	<0.001							
3/1/2021			0.00012 (J)						
3/2/2021							8E-05 (J)	0.00027 (J)	0.00028 (J)
3/3/2021	<0.001	<0.001		0.00024 (J)	0.0007 (J)	0.0011			
9/9/2021		<0.001							
9/10/2021	<0.001		<0.001		<0.001	0.00099 (J)	<0.001		<0.005
9/13/2021				<0.001				<0.001	
1/20/2022	<0.001	<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.001				
1/24/2022			<0.001			0.0011	<0.001		
1/25/2022								<0.001	
1/26/2022									<0.005
9/13/2022				<0.001	<0.001	0.00093 (J)			
9/14/2022							<0.001		
9/15/2022								<0.001	
9/16/2022	<0.001								
9/19/2022			<0.001						<0.005
9/20/2022		<0.001							
2/1/2023				<0.001					
2/3/2023			<0.001		<0.001	<0.001			<0.005
2/6/2023	<0.001	<0.001							
2/7/2023							<0.001	<0.001	
9/11/2023	<0.001	<0.001							
9/12/2023					0.00024 (J)			<0.001	
9/13/2023			<0.001	0.00018 (J)		0.00082 (J)	<0.001		
9/14/2023									
1/30/2024				0.00017 (J)					
1/31/2024	<0.001	<0.001							
2/1/2024			<0.001				<0.001	<0.001	
2/5/2024					0.00029 (J)	0.00077 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.00015 (J)
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.0013 (J)								
9/24/2020									
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)	
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)								
3/12/2021									
4/15/2021									0.088
9/9/2021									
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			0.015 (J)	0.029 (J)	0.077
1/20/2022									0.079
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									0.076
2/2/2023	<0.03		0.011 (J)						
2/3/2023		0.008 (J)		0.037					0.068
2/6/2023						0.014 (J)			
2/7/2023					0.0053 (J)		0.014 (J)	0.018 (J)	
9/6/2023	0.0023 (J)								
9/7/2023									
9/8/2023		0.015 (J)							
9/11/2023			0.0091 (J)		0.0045 (J)				
9/12/2023						0.012 (J)			0.044
9/13/2023				0.04			0.014 (J)	0.019 (J)	
1/31/2024	<0.03								
2/1/2024						0.014 (J)	0.015 (J)		
2/2/2024		0.015 (J)	0.01 (J)		0.0051 (J)				
2/5/2024				0.037				0.022 (J)	0.057

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	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)
9/25/2020			
9/28/2020		0.005 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.0051 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			0.0087 (J)
4/15/2021			
9/9/2021			0.0094 (J)
9/10/2021			
9/13/2021		0.0055 (J)	
9/14/2021			
1/20/2022			0.0092 (J)
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			0.0085 (J)
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.0057 (J)	
9/19/2022			
2/2/2023			0.0082 (J)
2/3/2023			
2/6/2023	0.014 (J)		
2/7/2023		0.0054 (J)	
9/6/2023			
9/7/2023	0.013 (J)		0.0092 (J)
9/8/2023		0.0055 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.013 (J)		0.0094 (J)
2/2/2024			
2/5/2024		0.0061 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.05								
1/30/2019		<0.03							
8/27/2019									
8/28/2019									
9/11/2019	0.0064 (J)								
9/12/2019		<0.03							
9/18/2019			0.0047 (J)						
9/23/2019				0.0039 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.03		0.0036 (J)	0.003 (J)				
10/22/2019	0.0062 (J)								
10/24/2019			0.0036 (J)						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			0.0018 (J)						
8/14/2020					0.0045 (J)				
8/17/2020				0.0016 (J)		0.006 (J)			
8/19/2020								0.011 (J)	
9/22/2020									
9/24/2020			0.00095 (J)						
9/25/2020					0.0018 (J)	0.0016 (J)			
9/28/2020				0.001 (J)				0.011 (J)	
3/1/2021									
3/4/2021			0.0011 (J)		0.0024 (J)				
3/5/2021						0.029 (J)			
3/9/2021								0.012 (J)	
3/12/2021	0.0066 (J)								
9/9/2021									
9/13/2021						0.0017 (J)			
9/14/2021	0.0064 (J)	<0.03	<0.03	0.001 (J)					
9/15/2021							0.012 (J)	0.011 (J)	0.0042 (J)
9/16/2021					0.0021 (J)				
1/18/2022									
1/20/2022	0.0062 (J)		<0.03						
1/21/2022					0.0022 (J)				
1/25/2022		0.00073 (J)		0.00082 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							0.015 (J)	0.013 (J)	0.0047 (J)
1/27/2022						0.0066 (J)			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.015 (J)	0.013 (J)	
9/13/2022			0.0021 (JD)		0.0027 (J)				0.0052 (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									0.0048 (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)			
9/6/2023							0.0095 (J)	0.013 (J)	0.0045 (J)
9/7/2023	0.0069 (J)								
9/11/2023		<0.03		<0.03					
9/12/2023			<0.03		0.0021 (J)	0.004 (J)			
1/30/2024							0.014 (J)	0.01 (J)	
1/31/2024									0.0046 (J)
2/1/2024	0.0052 (J)	<0.03		<0.03	0.0023 (J)				
2/5/2024			<0.03			0.0044 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.0108 (J)	0.0054 (J)
5/11/2017		0.0087 (J)	
5/15/2017			0.002 (J)
6/15/2017		0.0088 (J)	<0.03
7/11/2017			<0.03
7/12/2017		0.0075 (J)	
8/8/2017			<0.03
10/24/2017		0.0103 (J)	<0.03
2/27/2018			<0.03
3/8/2018		0.011 (J)	
7/10/2018			<0.03
7/12/2018		0.0084 (J)	
11/6/2018			<0.03
11/7/2018		<0.05	
1/28/2019			
1/30/2019			
8/27/2019			<0.03
8/28/2019		0.0092 (J)	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.03
10/16/2019		0.0094 (J)	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.03
3/9/2020		0.0077 (J)	
8/11/2020			0.0019 (J)
8/13/2020		0.0085 (J)	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.0089 (J)	<0.03
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.03
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.0083 (J)	
9/9/2021		0.0091 (J)	<0.03
9/13/2021			
9/14/2021			
9/15/2021	0.0012 (J)		
9/16/2021			
1/18/2022			<0.03
1/20/2022			
1/21/2022			
1/25/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.0013 (J)		
1/27/2022			
1/28/2022		0.0091 (J)	
9/7/2022			<0.03
9/8/2022		0.0083 (J)	
9/12/2022			
9/13/2022	0.0011 (J)		
9/14/2022			
9/16/2022			
1/31/2023	0.00089 (J)		<0.03
2/1/2023		0.0088 (J)	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00097 (J)		<0.03
9/7/2023		0.0085 (J)	
9/11/2023			
9/12/2023			
1/30/2024	<0.03	0.0087 (J)	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0022 (J)	0.0022 (J)			0.0031 (J)			
9/1/2016				<0.03					0.0034 (J)
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)		0.0034 (J)
12/8/2016								<0.03	
3/28/2017	0.0025 (J)								
3/29/2017		0.002 (J)	0.0021 (J)	<0.03		0.0041 (J)			0.0031 (J)
3/30/2017					0.0035 (J)		0.0061 (J)	<0.03	
5/11/2017									
5/12/2017	0.0016 (J)								
6/15/2017									
6/16/2017	0.0016 (J)								
7/11/2017	<0.03								
7/12/2017		0.0019 (J)	0.0022 (J)	<0.03	0.0028 (J)	0.0036 (J)	0.006 (J)	<0.03	0.0032 (J)
10/24/2017	<0.03	0.0022 (J)	0.0024 (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	0.0013 (J)	0.0037 (J)	0.0022 (J)	0.00097 (J)		0.0035 (J)			
2/28/2018					<0.05		0.0062 (J)	<0.03	0.0031 (J)
7/10/2018	0.0012 (J)								
7/11/2018				<0.03		0.0034 (J)	0.0058 (J)	<0.03	0.0034 (J)
11/6/2018	<0.03	<0.05	<0.05						
11/7/2018				<0.03	<0.05	<0.05	<0.05 (O)	<0.03	<0.05
8/27/2019	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)		0.0032 (J)
8/29/2019									
9/17/2019				0.0011 (J)					
10/15/2019	0.0012 (J)	0.0051 (J)	0.0019 (J)	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	0.0011 (J)		0.0023 (J)	<0.03					
3/3/2020		0.0049 (J)			0.0035 (J)	0.008 (J)	0.0059 (J)		0.0034 (J)
3/4/2020								0.0011 (J)	
8/11/2020	0.0015 (J)	0.0033 (J)	0.0028 (J)	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	0.0012 (J)		0.0019 (J)	<0.03		0.0038 (J)			0.0034 (J)
9/23/2020					0.0033 (J)		0.006 (J)		
9/24/2020		0.0049 (J)						0.00096 (J)	
3/1/2021	0.0012 (J)								
3/2/2021			0.0017 (J)		0.0033 (J)	0.004 (J)	0.0051 (J)		0.003 (J)
3/3/2021				<0.03				0.0011 (J)	
3/4/2021		0.0042 (J)							
9/8/2021	0.0013 (J)								
9/9/2021			0.0029 (J)	<0.03	0.0036 (J)	0.0044 (J)	0.0057 (J)		0.0035 (J)
9/10/2021		0.0051 (J)							
9/13/2021								<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	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)			0.0031 (J)
1/26/2022		0.0059 (J)							
9/7/2022	0.0012 (J)								
9/13/2022						0.0043 (J)	0.0057 (J)		
9/14/2022								<0.03	0.0032 (J)
9/15/2022		0.0053 (J)	0.0024 (J)	0.00088 (J)	0.004 (J)				
9/20/2022									
1/31/2023	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	0.0026 (J)
2/7/2023									
9/6/2023	0.0013 (J)								
9/8/2023			0.0017 (J)		0.0031 (J)	0.0041 (J)	0.0051 (J)		0.0024 (J)
9/11/2023		0.0043 (J)		<0.03					
9/13/2023								<0.03	
1/30/2024	<0.03								
1/31/2024					0.0035 (J)				
2/1/2024			0.0016 (J)						0.0024 (J)
2/2/2024		0.0042 (J)		<0.03					
2/5/2024						0.0046 (J)	0.0059 (J)		
2/6/2024								<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0021 (J)	0.0057 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.005 (J)	
12/8/2016			0.0054 (J)
3/28/2017			
3/29/2017		0.0021 (J)	
3/30/2017	0.0807		0.0065 (J)
5/11/2017	0.085		
5/12/2017			
6/15/2017	0.0781		
6/16/2017			
7/11/2017	0.0731		
7/12/2017		0.0019 (J)	0.0057 (J)
10/24/2017	0.0995		
10/25/2017		0.0022 (J)	0.006 (J)
11/15/2017			
2/27/2018	0.0875		
2/28/2018		0.0019 (J)	0.0061 (J)
7/10/2018			
7/11/2018	0.033 (J)	0.0022 (J)	0.0057 (J)
11/6/2018	<0.05		
11/7/2018		<0.05	<0.05
8/27/2019	0.032		
8/28/2019			
8/29/2019		0.0093 (J)	0.0061 (J)
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.029 (J)	0.0075 (J)	0.0063 (J)
10/18/2019			
3/2/2020			
3/3/2020	0.026 (J)		0.0065 (J)
3/4/2020		0.019 (J)	
8/11/2020	0.028 (J)		
8/12/2020			
8/13/2020		0.012 (J)	
8/14/2020			0.0058 (J)
9/22/2020		0.0026 (J)	
9/23/2020	0.022 (J)		
9/24/2020			0.0062 (J)
3/1/2021			
3/2/2021	0.023 (J)	0.011 (J)	
3/3/2021			0.0054 (J)
3/4/2021			
9/8/2021			
9/9/2021	0.024 (J)		0.006 (J)
9/10/2021		0.0023 (J)	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.024 (J)		0.0058 (J)
1/21/2022		0.012 (J)	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.0096 (J)	0.0069 (J)
9/20/2022	0.021 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.017 (J)		
2/7/2023		0.013 (J)	0.0056 (J)
9/6/2023			
9/8/2023			
9/11/2023		0.011 (J)	0.0055 (J)
9/13/2023	0.017 (J)		
1/30/2024			
1/31/2024			0.0065 (J)
2/1/2024	0.017 (J)	0.012 (J)	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	0.0046 (J)								
9/7/2016				0.012 (J)					
12/6/2016							0.0046 (J)	0.0066 (J)	0.0242 (J)
12/8/2016	0.0047 (J)			0.0118 (J)	0.0667	0.122			
3/28/2017			0.0031 (J)				0.0028 (J)		0.0249 (J)
3/29/2017	0.0043 (J)							0.0059 (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)	0.0045 (J)	0.022 (J)
7/12/2017		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)	0.0281 (J)
10/25/2017	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)	0.031 (J)
2/28/2018	0.0043 (J)			0.0122 (J)					
3/1/2018		0.0759			0.0772				
3/2/2018						0.129			
7/11/2018				0.01 (J)					0.028 (J)
7/12/2018	0.0036 (J)	0.0047 (J)			0.073	0.12			
11/6/2018			<0.05				<0.05	<0.05	<0.05
11/7/2018	<0.05			<0.05	0.082	0.12			
11/8/2018		<0.05							
8/27/2019			0.0033 (J)				0.008 (J)		0.031
8/28/2019				0.01 (J)				0.0048 (J)	
8/29/2019	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				0.011 (J)	0.066				0.029 (J)
10/18/2019	0.0041 (J)	0.0039 (J)				0.11			
3/2/2020			0.0035 (J)				0.0079 (J)		
3/3/2020	0.0046 (J)							0.0052 (J)	0.028 (J)
3/4/2020		0.004 (J)		0.0091 (J)	0.063	0.12			
8/11/2020									0.032
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	0.0039 (J)								
9/22/2020			0.0026 (J)	0.0099 (J)			0.0065 (J)		0.025 (J)
9/23/2020					0.046	0.1		0.0045 (J)	
9/24/2020	0.0037 (J)	0.0045 (J)							
3/1/2021			0.0035 (J)						
3/2/2021							0.0064 (J)	0.0046 (J)	0.028 (J)
3/3/2021	0.0038 (J)	0.014 (J)		0.0079 (J)	0.049	0.096			
9/9/2021		0.0081 (J)							
9/10/2021	0.0039 (J)		0.0035 (J)		0.053	0.095	0.0071 (J)		0.027 (J)
9/13/2021				0.015 (J)				0.0034 (J)	
1/20/2022	0.0032 (J)	0.0029 (J)		0.0069 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
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									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)	
9/16/2022	0.0033 (J)								
9/19/2022			0.0037 (J)						0.023 (J)
9/20/2022		0.0051 (J)							
2/1/2023				0.0068 (J)					
2/3/2023			0.0036 (J)		0.048	0.089			0.025 (J)
2/6/2023	0.0034 (J)	0.0022 (J)							
2/7/2023							0.0072 (J)	0.0036 (J)	
3/16/2023									
3/21/2023									
4/10/2023									
9/11/2023	0.0031 (J)	0.0036 (J)							
9/12/2023					0.034			0.0045 (J)	
9/13/2023			0.004 (J)	0.0087 (J)		0.096	0.0081 (J)		
9/14/2023									
1/30/2024				0.0078 (J)					
1/31/2024	0.0037 (J)	0.0024 (J)							
2/1/2024			0.0038 (J)				0.0075 (J)	0.0031 (J)	
2/5/2024					0.046	0.083			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/16/2023	0.074
3/21/2023	0.078
4/10/2023	0.034
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.031
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.028 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	0.00011 (J)								
9/24/2020									
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	
3/3/2021									
3/4/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2021		0.00014 (J)						<0.0002	
3/12/2021									
4/15/2021									<0.0002
9/9/2021									
9/10/2021			<0.0002						
9/13/2021	<0.0002	<0.0002			<0.0002	<0.0002			
9/14/2021				<0.0002			<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									<0.0002
2/2/2023	<0.0002		<0.0002						
2/3/2023		0.00029		<0.0002					<0.0002
2/6/2023						<0.0002			
2/7/2023					<0.0002		<0.0002	<0.0002	
9/6/2023	<0.0002								
9/7/2023									
9/8/2023		<0.0002							
9/11/2023			<0.0002		<0.0002				
9/12/2023						<0.0002			<0.0002
9/13/2023				<0.0002			<0.0002	<0.0002	
1/31/2024	<0.0002								
2/1/2024						<0.0002	<0.0002		
2/2/2024		<0.0002	<0.0002		<0.0002				
2/5/2024				<0.0002				<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.0002
9/11/2019			<0.0002
10/21/2019			<0.0002
8/13/2020			<0.0002
8/17/2020		0.00016 (J)	
9/24/2020			<0.0002
9/25/2020			
9/28/2020		<0.0002	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.0002	
3/4/2021			
3/5/2021			
3/12/2021			<0.0002
4/15/2021			
9/9/2021			<0.0002
9/10/2021			
9/13/2021		<0.0002	
9/14/2021			
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			<0.0002
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.0002	
9/19/2022			
2/2/2023			<0.0002
2/3/2023			
2/6/2023	<0.0002		
2/7/2023		0.00034	
9/6/2023			
9/7/2023	<0.0002		<0.0002
9/8/2023		<0.0002	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.0002		<0.0002
2/2/2024			
2/5/2024		0.00029	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.0002								
1/30/2019		<0.0002							
8/27/2019									
8/28/2019									
9/11/2019	<0.0002								
9/12/2019		<0.0002							
9/18/2019			<0.0002						
9/23/2019				<0.0002					
10/15/2019									
10/16/2019									
10/21/2019		<0.0002		<0.0002	<0.0002				
10/22/2019	<0.0002								
10/24/2019			<0.0002						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.0002						
8/14/2020					<0.0002				
8/17/2020				0.00011 (J)		0.00011 (J)			
8/19/2020								0.00026	
9/22/2020									
9/24/2020			<0.0002						
9/25/2020					<0.0002	<0.0002			
9/28/2020				<0.0002				0.00024 (J)	
3/1/2021									
3/4/2021			<0.0002		<0.0002				
3/5/2021						0.0001 (J)			
3/9/2021								0.00015 (J)	
3/12/2021									
9/9/2021									
9/13/2021						<0.0002			
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002					
9/15/2021							0.00017 (J)	9.8E-05 (J)	<0.0002
9/16/2021					<0.0002				
1/18/2022									
1/20/2022	<0.0002		<0.0002						
1/21/2022					<0.0002				
1/25/2022		<0.0002		<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.0002	<0.0002	<0.0002
1/27/2022						<0.0002			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.00015 (J)	0.00016 (J)	
9/13/2022			<0.0002		<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									<0.0002
2/2/2023	<0.0002								
2/3/2023					<0.0002				
2/6/2023			<0.0002						
2/7/2023		0.00029		<0.0002		<0.0002			
9/6/2023							<0.0002	<0.0002	<0.0002
9/7/2023	<0.0002								
9/11/2023		<0.0002		<0.0002					
9/12/2023			<0.0002		<0.0002	<0.0002			
1/30/2024							0.00015 (J)	0.00013 (J)	
1/31/2024									<0.0002
2/1/2024	<0.0002	<0.0002		<0.0002	<0.0002				
2/5/2024			<0.0002			<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.0002	<0.0002
5/11/2017		<0.0002	
5/15/2017			<0.0002
6/15/2017		8E-05 (J)	7E-05 (J)
7/11/2017			<0.0002
7/12/2017		<0.0002	
8/8/2017			<0.0002
10/24/2017		<0.0002	<0.0002
2/27/2018			<0.0002
3/8/2018		<0.0002	
7/10/2018			5.5E-05 (J)
7/12/2018		<0.0002	
11/6/2018			<0.0002
11/7/2018		<0.0002	
1/28/2019			
1/30/2019			
8/27/2019			<0.0002
8/28/2019		<0.0002	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.0002
10/16/2019		<0.0002	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.0002
3/9/2020		<0.0002	
8/11/2020			<0.0002
8/13/2020		<0.0002	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.0002	<0.0002
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.0002
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.0002	
9/9/2021		<0.0002	<0.0002
9/13/2021			
9/14/2021			
9/15/2021	<0.0002		
9/16/2021			
1/18/2022			<0.0002
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.0002		
1/27/2022			
1/28/2022		<0.0002	
9/7/2022			<0.0002
9/8/2022		<0.0002	
9/12/2022			
9/13/2022	<0.0002		
9/14/2022			
9/16/2022			
1/31/2023	<0.0002		<0.0002
2/1/2023		<0.0002	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.0002		<0.0002
9/7/2023		<0.0002	
9/11/2023			
9/12/2023			
1/30/2024	<0.0002	<0.0002	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		7E-05 (J)	5E-05 (J)			5E-05 (J)			
9/1/2016				9E-05 (J)					4E-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		5E-05 (J)
12/8/2016								<0.0002	
3/28/2017	<0.0002								
3/29/2017		8E-05 (J)	6E-05 (J)	0.00014 (J)		6E-05 (J)			9E-05 (J)
3/30/2017					7E-05 (J)		6E-05 (J)	0.00012 (J)	
5/11/2017									
5/12/2017	6E-05 (J)								
6/15/2017									
6/16/2017	7E-05 (J)								
7/11/2017	<0.0002								
7/12/2017		<0.0002	<0.0002	8E-05 (J)	<0.0002	<0.0002	<0.0002	5E-05 (J)	<0.0002
10/24/2017	<0.0002	<0.0002	<0.0002						
10/25/2017				6E-05 (J)		<0.0002	<0.0002	5E-05 (J)	<0.0002
11/15/2017					<0.0002				
2/27/2018	<0.0002	<0.0002	<0.0002	6E-05 (J)		<0.0002			
2/28/2018					<0.0002		<0.0002	<0.0002	<0.0002
7/10/2018	0.0001 (J)								
7/11/2018				3.6E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
11/6/2018	<0.0002	<0.0002	<0.0002						
11/7/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		0.00016 (J)	
8/28/2019					<0.0002		<0.0002		<0.0002
8/29/2019									
9/17/2019				<0.0002					
10/15/2019	<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								<0.0002	
3/2/2020	<0.0002		<0.0002	<0.0002					
3/3/2020		<0.0002			<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	9E-05 (J)								
3/2/2021			<0.0002		<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							
9/13/2021								8.6E-05 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	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			<0.0002
1/26/2022		<0.0002							
9/7/2022	0.00013 (J)								
9/13/2022						<0.0002	<0.0002		
9/14/2022								<0.0002	<0.0002
9/15/2022		<0.0002	<0.0002	<0.0002	<0.0002				
9/20/2022									
1/31/2023	<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)	0.00013 (J)
2/7/2023									
9/6/2023	<0.0002								
9/8/2023			0.00048		<0.0002	<0.0002	<0.0002		<0.0002
9/11/2023		0.0021		<0.0002					
9/13/2023								<0.0002	
1/30/2024	<0.0002								
1/31/2024					<0.0002				
2/1/2024			<0.0002						<0.0002
2/2/2024		<0.0002		<0.0002					
2/5/2024						<0.0002	<0.0002		
2/6/2024								<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.0002	6E-05 (J)
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		8E-05 (J)	
12/8/2016			<0.0002
3/28/2017			
3/29/2017		8E-05 (J)	
3/30/2017	7E-05 (J)		8E-05 (J)
5/11/2017	8.3E-05 (J)		
5/12/2017			
6/15/2017	8E-05 (J)		
6/16/2017			
7/11/2017	<0.0002		
7/12/2017		<0.0002	6E-05 (J)
10/24/2017	<0.0002		
10/25/2017		<0.0002	5E-05 (J)
11/15/2017			
2/27/2018	<0.0002		
2/28/2018		<0.0002	<0.0002
7/10/2018			
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			
8/29/2019		<0.0002	<0.0002
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.0002	<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		
8/12/2020			
8/13/2020		<0.0002	
8/14/2020			<0.0002
9/22/2020		<0.0002	
9/23/2020	<0.0002		
9/24/2020			0.00012 (J)
3/1/2021			
3/2/2021	<0.0002	9E-05 (J)	
3/3/2021			<0.0002
3/4/2021			
9/8/2021			
9/9/2021	<0.0002		<0.0002
9/10/2021		<0.0002	
9/13/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.0002		<0.0002
1/21/2022		<0.0002	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.0002	<0.0002
9/20/2022	<0.0002		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.0002		
2/7/2023		<0.0002	<0.0002
9/6/2023			
9/8/2023			
9/11/2023		<0.0002	<0.0002
9/13/2023	<0.0002		
1/30/2024			
1/31/2024			<0.0002
2/1/2024	<0.0002	<0.0002	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								9E-05 (J)	<0.0002
8/31/2016							0.00015 (J)		
9/1/2016					<0.0002	<0.0002			
9/2/2016	5E-05 (J)								
9/7/2016				<0.0002					
12/6/2016							0.00012 (J)	0.0001 (J)	5E-05 (J)
12/8/2016	<0.0002			<0.0002	<0.0002	<0.0002			
3/28/2017			<0.0002				0.00017 (J)		<0.0002
3/29/2017	0.0001 (J)							0.00012 (J)	
3/30/2017		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)	<0.0002
7/12/2017		0.00012 (J)							
7/13/2017	<0.0002			<0.0002	<0.0002	<0.0002			
10/24/2017			<0.0002					<0.0002	<0.0002
10/25/2017	<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)	4.2E-05 (J)
2/28/2018	<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	<0.0002
11/7/2018	<0.0002			<0.0002	<0.0002	<0.0002			
11/8/2018		<0.0002							
8/27/2019			<0.0002				0.00016 (J)		0.00021 (J)
8/28/2019				<0.0002				<0.0002	
8/29/2019	<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				0.00042 (J)
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									0.00026
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								
9/22/2020			<0.0002	<0.0002			0.0002 (J)		0.00013 (J)
9/23/2020					<0.0002	<0.0002		<0.0002	
9/24/2020	<0.0002	0.0002 (J)							
3/1/2021			<0.0002						
3/2/2021							9.4E-05 (J)	<0.0002	0.00017 (J)
3/3/2021	<0.0002	0.00033		<0.0002	<0.0002	<0.0002			
9/9/2021		0.00011 (J)							
9/10/2021	0.00011 (J)		0.00013 (J)		<0.0002	<0.0002	0.0003		0.00014 (J)
9/13/2021				<0.0002				<0.0002	
1/20/2022	<0.0002	<0.0002		<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.0002				
1/24/2022			0.00022			<0.0002	0.00028		
1/25/2022								<0.0002	
1/26/2022									0.00014 (J)
9/13/2022				<0.0002	<0.0002	<0.0002			
9/14/2022							0.00022		
9/15/2022								<0.0002	
9/16/2022	<0.0002								
9/19/2022			<0.0002						0.0002
9/20/2022		<0.0002							
2/1/2023				<0.0002					
2/3/2023			<0.0002		<0.0002	<0.0002			0.00017 (J)
2/6/2023	0.00014 (J)	<0.0002							
2/7/2023							0.00026	<0.0002	
9/11/2023	<0.0002	<0.0002							
9/12/2023					<0.0002			0.00013 (J)	
9/13/2023			<0.0002	<0.0002		<0.0002	0.00028		
9/14/2023									
1/30/2024				<0.0002					
1/31/2024	<0.0002	<0.0002							
2/1/2024			<0.0002				0.00024	<0.0002	
2/5/2024					<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.0002
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.01								
9/24/2020									
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)	
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								
3/12/2021									
4/15/2021									0.00089 (J)
9/9/2021									
9/10/2021			<0.01						
9/13/2021	<0.01	<0.01			<0.01	<0.01			
9/14/2021				<0.01			<0.01	0.013	<0.01
1/20/2022									<0.01
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									<0.01
2/2/2023	0.19		<0.01						
2/3/2023		<0.01		<0.01					<0.01
2/6/2023						<0.01			
2/7/2023					<0.01		<0.01	0.0077 (J)	
9/6/2023	<0.01								
9/7/2023									
9/8/2023		<0.01							
9/11/2023			<0.01		<0.01				
9/12/2023						<0.01			<0.01
9/13/2023				0.00092 (J)			0.00078 (J)	0.0071 (J)	
1/31/2024	<0.01								
2/1/2024						<0.01	<0.01		
2/2/2024		<0.01	<0.01		<0.01				
2/5/2024				<0.01				0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.01
9/11/2019			<0.01
10/21/2019			<0.01
8/13/2020			<0.01
8/17/2020		<0.01	
9/24/2020			<0.01
9/25/2020			
9/28/2020		<0.01	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		<0.01	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.01
4/15/2021			
9/9/2021			<0.01
9/10/2021			
9/13/2021		<0.01	
9/14/2021			
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			<0.01
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		<0.01	
9/19/2022			
2/2/2023			<0.01
2/3/2023			
2/6/2023	0.0011 (J)		
2/7/2023		<0.01	
9/6/2023			
9/7/2023	0.001 (J)		<0.01
9/8/2023		<0.01	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	0.0011 (J)		<0.01
2/2/2024			
2/5/2024		<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.01								
1/30/2019		<0.01							
8/27/2019									
8/28/2019									
9/11/2019	<0.01								
9/12/2019		0.0018 (J)							
9/18/2019			<0.01						
9/23/2019				<0.01					
10/15/2019									
10/16/2019									
10/21/2019		0.0015 (J)		<0.01	<0.01				
10/22/2019	<0.01								
10/24/2019			<0.01						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<0.01						
8/14/2020					<0.01				
8/17/2020				<0.01		0.0012 (J)			
8/19/2020								<0.01	
9/22/2020									
9/24/2020			<0.01						
9/25/2020					<0.01	0.0012 (J)			
9/28/2020				<0.01				<0.01	
3/1/2021									
3/4/2021			<0.01		<0.01				
3/5/2021						<0.01			
3/9/2021								<0.01	
3/12/2021									
9/9/2021									
9/13/2021						<0.01			
9/14/2021	<0.01	<0.01	<0.01	<0.01					
9/15/2021							<0.01	<0.01	<0.01
9/16/2021					<0.01				
1/18/2022									
1/20/2022	<0.01		<0.01						
1/21/2022					<0.01				
1/25/2022		<0.01		<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.01	<0.01	<0.01
1/27/2022						<0.01			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							<0.01	<0.01	
9/13/2022			<0.01		<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									<0.01
2/2/2023	<0.01								
2/3/2023					<0.01				
2/6/2023			<0.01						
2/7/2023		<0.01		<0.01		<0.01			
9/6/2023							<0.01	<0.01	<0.01
9/7/2023	<0.01								
9/11/2023		<0.01		0.00081 (J)					
9/12/2023			<0.01		<0.01	<0.01			
1/30/2024							<0.01	<0.01	
1/31/2024									<0.01
2/1/2024	<0.01	<0.01		<0.01	<0.01				
2/5/2024			<0.01			<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		0.0242	<0.01
5/11/2017		0.0375	
5/15/2017			<0.01
6/15/2017		0.0409	<0.01
7/11/2017			<0.01
7/12/2017		0.0321	
8/8/2017			<0.01
10/24/2017		0.0227	<0.01
2/27/2018			<0.01
3/8/2018		0.035	
7/10/2018			<0.01
7/12/2018		0.034	
11/6/2018			<0.01
11/7/2018		0.029	
1/28/2019			
1/30/2019			
8/27/2019			<0.01
8/28/2019		0.031	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.01
10/16/2019		0.037	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.01
3/9/2020		0.026	
8/11/2020			<0.01
8/13/2020		0.012	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		0.039	<0.01
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.01
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		0.018	
9/9/2021		0.025	<0.01
9/13/2021			
9/14/2021			
9/15/2021	<0.01		
9/16/2021			
1/18/2022			<0.01
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	0.0015 (J)		
1/27/2022			
1/28/2022		0.026	
9/7/2022			<0.01
9/8/2022		0.027	
9/12/2022			
9/13/2022	0.00084 (J)		
9/14/2022			
9/16/2022			
1/31/2023	0.0014 (J)		<0.01
2/1/2023		0.023	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	0.00075 (J)		<0.01
9/7/2023		0.022	
9/11/2023			
9/12/2023			
1/30/2024	0.00095 (J)	0.025	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		<0.01	<0.01			<0.01			
9/1/2016				<0.01					<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		<0.01
12/8/2016								<0.01	
3/28/2017	0.0009 (J)								
3/29/2017		<0.01	<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								
6/15/2017									
6/16/2017	<0.01								
7/11/2017	<0.01								
7/12/2017		<0.01	<0.01	<0.01	0.0323	<0.01	<0.01	<0.01	<0.01
10/24/2017	<0.01	<0.01	<0.01						
10/25/2017				<0.01		<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			
2/28/2018					0.0093 (J)		<0.01	<0.01	<0.01
7/10/2018	<0.01								
7/11/2018				<0.01		<0.01	<0.01	<0.01	<0.01
11/6/2018	<0.01	<0.01	<0.01						
11/7/2018				<0.01	0.018	<0.01	<0.01	<0.01	<0.01
8/27/2019	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01	
8/28/2019					0.015		<0.01		<0.01
8/29/2019									
9/17/2019				<0.01					
10/15/2019	<0.01	<0.01	<0.01	<0.01					
10/16/2019					0.014	<0.01			<0.01
10/17/2019							<0.01		
10/18/2019								<0.01	
3/2/2020	<0.01		<0.01	<0.01					
3/3/2020		<0.01			0.018	<0.01	<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								
3/2/2021			<0.01		0.011	<0.01	<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	0.011	<0.01	<0.01		<0.01
9/10/2021		<0.01							
9/13/2021								<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			<0.01
1/26/2022		<0.01							
9/7/2022	<0.01								
9/13/2022						<0.01	<0.01		
9/14/2022								<0.01	<0.01
9/15/2022		<0.01	<0.01	<0.01	0.0094 (J)				
9/20/2022									
1/31/2023	<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	<0.01
2/7/2023									
9/6/2023	<0.01								
9/8/2023			<0.01		0.0073 (J)	<0.01	<0.01		<0.01
9/11/2023		<0.01		<0.01					
9/13/2023								<0.01	
1/30/2024	<0.01								
1/31/2024					0.0081 (J)				
2/1/2024			<0.01						<0.01
2/2/2024		<0.01		<0.01					
2/5/2024						<0.01	<0.01		
2/6/2024								<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	<0.01
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		<0.01	
12/8/2016			<0.01
3/28/2017			
3/29/2017		<0.01	
3/30/2017	0.0009 (J)		<0.01
5/11/2017	0.0009 (J)		
5/12/2017			
6/15/2017	<0.01		
6/16/2017			
7/11/2017	<0.01		
7/12/2017		<0.01	<0.01
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
7/10/2018			
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			
8/29/2019		<0.01	<0.01
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0018 (J)	<0.01	<0.01
10/18/2019			
3/2/2020			
3/3/2020	0.0022 (J)		<0.01
3/4/2020		<0.01	
8/11/2020	0.002 (J)		
8/12/2020			
8/13/2020		<0.01	
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	0.0021 (J)	<0.01	
3/3/2021			<0.01
3/4/2021			
9/8/2021			
9/9/2021	0.0023 (J)		<0.01
9/10/2021		<0.01	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.0022 (J)		<0.01
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		<0.01	<0.01
9/20/2022	0.0021 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0021 (J)		
2/7/2023		<0.01	<0.01
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.01
9/13/2023	0.0022 (J)		
1/30/2024			
1/31/2024			<0.01
2/1/2024	0.0024 (J)	<0.01	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								<0.01	<0.01
8/31/2016							<0.01		
9/1/2016					<0.01	<0.01			
9/2/2016	<0.01								
9/7/2016				<0.01					
12/6/2016							<0.01	<0.01	<0.01
12/8/2016	<0.01			<0.01	<0.01	<0.01			
3/28/2017			0.008 (J)				<0.01		<0.01
3/29/2017	<0.01							<0.01	
3/30/2017		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	<0.01
7/12/2017		0.0092 (J)							
7/13/2017	<0.01			<0.01	<0.01	<0.01			
10/24/2017			0.0072 (J)					<0.01	<0.01
10/25/2017	<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	<0.01
2/28/2018	<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	<0.01
11/7/2018	<0.01			<0.01	<0.01	<0.01			
11/8/2018		0.012							
8/27/2019			0.0065 (J)				<0.01		<0.01
8/28/2019				<0.01				<0.01	
8/29/2019	<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									<0.01
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								
9/22/2020			0.0028 (J)	<0.01			<0.01		<0.01
9/23/2020					<0.01	<0.01		<0.01	
9/24/2020	<0.01	0.0088 (J)							
3/1/2021			0.0051 (J)						
3/2/2021							<0.01	<0.01	<0.01
3/3/2021	<0.01	0.0026 (J)		<0.01	<0.01	<0.01			
9/9/2021		0.01							
9/10/2021	<0.01		0.0052 (J)		<0.01	<0.01	<0.01		<0.01
9/13/2021				<0.01				<0.01	
1/20/2022	<0.01	0.0073 (J)		<0.01					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					<0.01				
1/24/2022			0.0045 (J)			<0.01	<0.01		
1/25/2022								<0.01	
1/26/2022									<0.01
9/13/2022				<0.01	<0.01	<0.01			
9/14/2022							<0.01		
9/15/2022								<0.01	
9/16/2022	<0.01								
9/19/2022			0.0037 (J)						<0.01
9/20/2022		0.0095 (J)							
2/1/2023				<0.01					
2/3/2023			0.0035 (J)		<0.01	<0.01			<0.01
2/6/2023	<0.01	0.007 (J)							
2/7/2023							<0.01	<0.01	
9/11/2023	0.00097 (J)	0.0088 (J)							
9/12/2023					<0.01			<0.01	
9/13/2023			0.0034 (J)	<0.01		<0.01	<0.01		
9/14/2023									
1/30/2024				<0.01					
1/31/2024	<0.01	0.0069 (J)							
2/1/2024			0.0027 (J)				<0.01	<0.01	
2/5/2024					<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	0.0034 (J)
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	0.0033 (J)

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 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-111D	B-120D
9/11/2019									
10/21/2019									
8/3/2020	4.93								
8/13/2020									
8/17/2020	5.02								
9/24/2020									
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	
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								
3/12/2021									
4/15/2021									5.46
9/9/2021									
9/10/2021			5.36						
9/13/2021	5.27	6.07			5.91	5.88			
9/14/2021				8.58			5.81	7.29	5.3
1/20/2022									5.28
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								
9/9/2022									
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									5.21
2/2/2023	5.3		5.47						
2/3/2023		5.95		6.17					5.59
2/6/2023						5.9			
2/7/2023					5.86		5.92	7.3	
9/6/2023	5.25								
9/7/2023									
9/8/2023		6.04							
9/11/2023			5.39		5.8				
9/12/2023						5.85			5.27
9/13/2023				6.44			5.88	7.01	
1/31/2024	5.35								
2/1/2024						5.84	5.7		
2/2/2024		6.75	5.45		5.83				
2/5/2024				6.26				7.11	5.26

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
9/11/2019			6.27
10/21/2019			6.24
8/3/2020			
8/13/2020			6.4
8/17/2020		4.82	
9/24/2020			6.55
9/25/2020			
9/28/2020		4.9	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		4.71	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			6.34
4/15/2021			
9/9/2021			6.31
9/10/2021			
9/13/2021		4.69	
9/14/2021			
1/20/2022			6.32
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			6.22
9/9/2022			6.22 (D)
9/13/2022			
9/14/2022	6.07		
9/15/2022			
9/16/2022		4.56	
9/19/2022			
2/2/2023			6.33
2/3/2023			
2/6/2023	6.08		
2/7/2023		4.55	
9/6/2023			
9/7/2023	5.94		6.38
9/8/2023		4.6	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	6.01		6.41
2/2/2024			
2/5/2024		4.71	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	5.39								
1/30/2019		6.83							
3/12/2019									
3/13/2019									
8/27/2019									
8/28/2019									
9/11/2019	5.48								
9/12/2019		6.87							
9/18/2019			6.14						
9/23/2019				5.21					
10/15/2019									
10/16/2019									
10/21/2019		6.74		5.34	5.54				
10/22/2019	5.55								
10/24/2019			6.26						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			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			6.46						
9/25/2020					5.97	5.75			
9/28/2020				5.84				4.67	
3/1/2021									
3/4/2021			6.33		5.6				
3/5/2021						5.21			
3/9/2021							4.62	4.73	5.55
3/12/2021	5.51	6.53		5.29					
3/15/2021									
9/9/2021									
9/13/2021						5.68			
9/14/2021	5.46	5.54	6.42	5.15					
9/15/2021							4.55	4.6	5.49
9/16/2021					5.58				

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/18/2022									
1/20/2022	5.46		6.48						
1/21/2022					5.56				
1/25/2022		6.35		5.07					
1/26/2022							4.5	4.74	6.52
1/27/2022						5.5			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							4.56	4.7	
9/13/2022			6.34		5.6				5.54
9/14/2022	5.31								
9/16/2022		6.6		5.02 (D)		5.47			
1/31/2023							4.48	4.68	
2/1/2023									5.47
2/2/2023	5.85								
2/3/2023					5.59				
2/6/2023			6.53						
2/7/2023		6.22		5.28		5.59			
9/6/2023							4.71	4.85	5.61
9/7/2023	5.27								
9/11/2023		6.22		5.6					
9/12/2023			6.55		5.66	5.41			
1/30/2024							4.64	4.72	
1/31/2024									5.53
2/1/2024	5.84	6.17		5.61	5.65				
2/5/2024			6.53			5.48			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		6.29	
5/11/2017		6.6	
5/15/2017			5.72
6/15/2017		6.41	5.74
7/11/2017			5.62
7/12/2017		5.91	
8/8/2017			5.6
10/24/2017		5.51	5.71
11/15/2017		6.5	
2/27/2018			5.5
3/8/2018		6.18	
7/10/2018			5.44
7/12/2018		6.33	
11/6/2018			5.71
11/7/2018		6.22	
1/28/2019			
1/30/2019			
3/12/2019			5.52
3/13/2019		6	
8/27/2019			5.53
8/28/2019		6.04	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			5.61
10/16/2019		6.69	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			5.54
3/9/2020		6.41	
8/11/2020			5.86
8/13/2020		6.17	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		6.43	6.01
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			5.43
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		6.38	
3/15/2021	6.3		
9/9/2021		6.41	5.5
9/13/2021			
9/14/2021			
9/15/2021	5.4		
9/16/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/18/2022			5.5
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	6.52		
1/27/2022			
1/28/2022		6.35	
9/7/2022			5.6
9/8/2022		6.32	
9/12/2022			
9/13/2022	6.18		
9/14/2022			
9/16/2022			
1/31/2023	6.76		5.59
2/1/2023		6.42	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	6.16	6.51	5.5
9/7/2023			
9/11/2023			
9/12/2023			
1/30/2024	6.65	6.28	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		4.58	5.83			5.68			
9/1/2016			5.67						4.64
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		4.63
12/8/2016								5.12	
3/28/2017	5.94								
3/29/2017		4.62	5.74	5.61		5.68			4.7
3/30/2017					5.94		5.8	5.08	
5/11/2017									
5/12/2017	5.46								
6/15/2017									
6/16/2017	5.81								
7/11/2017	5.74								
7/12/2017		4.81	5.82	5.81	5.84	5.66	5.81	5	4.76
10/24/2017	5.86	4.8	5.79						
10/25/2017				6.07		6.18	5.9	5.73	4.66
11/15/2017	5.77	4.9			5.87				
2/27/2018	5.66	5.55	5.94	5.73		5.63			
2/28/2018					5.99		5.8	5.22	4.63
7/10/2018	5.63	5.27	5.62		5.92				
7/11/2018						5.61	5.87	5.07	4.71
11/6/2018	5.79	5.3	5.69						
11/7/2018				5.85	5.87	5.58	5.9	5.09	4.69
3/12/2019	5.74	5.26	5.7	5.98					
3/13/2019					5.79	5.61		5.07	4.76
3/14/2019							5.77		
8/27/2019	5.87	5.14	5.55	5.55		5.58		4.96	
8/28/2019					5.71		5.88		4.85
8/29/2019									
9/17/2019				5.6					
10/15/2019	5.88	4.96	5.6	5.89					
10/16/2019					5.69	5.66			4.87
10/17/2019							5.76		
10/18/2019								5.08	
3/2/2020	5.77		5.62	6.13					
3/3/2020		4.77			5.71	5.73	5.79	5.07	4.89
3/4/2020								5.07	
8/11/2020	5.96	4.92	5.68	5.69		5.73			4.9
8/12/2020					5.68				
8/13/2020							6.58		
8/14/2020								5.01	
9/22/2020	6.06		5.54	6		5.7			4.91
9/23/2020					5.72		5.85		
9/24/2020		4.89						5.1	
3/1/2021	5.8								
3/2/2021			5.59		5.68	5.69	5.81		4.84
3/3/2021				6.13				5.23	
3/4/2021		5.27							
9/8/2021	5.76								

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
9/9/2021			5.59	6.07	5.69	5.7	5.83		4.82
9/10/2021		5.05							
9/13/2021								5.06	
1/18/2022	5.51								
1/20/2022									
1/21/2022									
1/24/2022							6.06	5.15	
1/25/2022			5.54	5.96	4.68	5.69			4.79
1/26/2022		4.9							
9/7/2022	5.65								
9/13/2022						5.71	5.82		
9/14/2022								5.08	4.81
9/15/2022		4.87	5.52	5.75	5.56				
9/20/2022									
1/31/2023	5.78								
2/1/2023					5.54	5.87			
2/2/2023		4.67					5.86		
2/6/2023			5.45	5.9				5.13	4.82
2/7/2023									
9/6/2023	5.82								
9/8/2023			5.44		5.59	5.67	5.81		4.78
9/11/2023		4.56		6.1					
9/13/2023								5.04	
1/30/2024	5.79								
1/31/2024					5.74				
2/1/2024			5.49						4.98
2/2/2024		4.72		6.06					
2/5/2024						5.69	5.86		
2/6/2024								5.07	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		4.7	5.7
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016			
12/8/2016			5.64
3/28/2017			
3/29/2017		4.7	
3/30/2017	5.75		5.79
5/11/2017	5.67		
5/12/2017			
6/15/2017	5.75		
6/16/2017			
7/11/2017	5.87		
7/12/2017		4.67	5.71
10/24/2017	5.82		
10/25/2017		4.71	5.68
11/15/2017			
2/27/2018	5.85		
2/28/2018		4.51	5.71
7/10/2018			
7/11/2018	5.85	4.68	
11/6/2018	5.88		
11/7/2018		4.64	5.61
3/12/2019	5.94		
3/13/2019		4.65	5.62
3/14/2019			
8/27/2019	5.94		
8/28/2019			
8/29/2019		4.64	5.61
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	6.16	4.64	5.57
10/18/2019			
3/2/2020			
3/3/2020	5.94		5.65
3/4/2020		4.22	
8/11/2020	6.04		
8/12/2020			
8/13/2020		4.36	
8/14/2020			5.66
9/22/2020		4.66	
9/23/2020	5.99		
9/24/2020			5.64
3/1/2021			
3/2/2021	6.01	4.45	
3/3/2021			5.63
3/4/2021			
9/8/2021			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
9/9/2021	6		5.73
9/10/2021		4.67	
9/13/2021			
1/18/2022			
1/20/2022	5.93		5.73
1/21/2022		4.47	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		4.58	5.69
9/20/2022	5.98		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	5.17		
2/7/2023		4.33	5.7
9/6/2023			
9/8/2023			
9/11/2023		4.06	5.61
9/13/2023	6.06		
1/30/2024			
1/31/2024			5.67
2/1/2024	6.02	4.49	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								5.33	4.08
8/31/2016							4.31		
9/1/2016					5.11	4.7			
9/2/2016	5.74								
9/7/2016				5.35					
12/6/2016							4.43	5.39	4.15
12/8/2016	6.03			5.41	5.71	4.58			
3/28/2017			6.01				4.44		4.16
3/29/2017	5.77							5.23	
3/30/2017		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	4.23
7/12/2017		5.97							
7/13/2017	5.71			5.27	4.95	4.3			
10/24/2017			5.99					5.05	4.06
10/25/2017	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	4.04
2/28/2018	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					4.03
7/12/2018	5.62	5.97			4.33	4.36			
11/6/2018			5.97				4.89	5.13	4
11/7/2018	5.71			5.18	4.48	4.23			
11/8/2018		5.96							
3/12/2019			5.85				4.42	5.07	3.98
3/14/2019	5.67	5.99		5.1	3.88	4.12			
8/27/2019			5.84				4.83		4.02
8/28/2019				5.3				5.11	
8/29/2019	5.66	5.96			4.35	4.28			
10/15/2019			5.98						
10/16/2019							4.78	5.33	
10/17/2019				5.2	4.6				4.02
10/18/2019	5.61	5.99				4.22			
3/2/2020			5.88				4.8		
3/3/2020	5.74							5.12	4.07
3/4/2020		5.68		5.18	3.86	4.27			
8/11/2020									4
8/12/2020			5.93		4.43		4.84	5.36	
8/13/2020		6		5.34		4.26			
8/14/2020	5.76								
9/22/2020			5.88	5.76			4.83		4
9/23/2020					4.4	4.64		5.21	
9/24/2020	5.69	6.19							
3/1/2021			5.82						
3/2/2021							5	6.6	3.99
3/3/2021	5.71	5.85		5.3	3.98	4.14			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/9/2021		6							
9/10/2021	5.65		5.83		4.1	4.3	4.89		3.98
9/13/2021				5.15				5.05	
1/20/2022	5.72	5.95		5.27					
1/21/2022					3.72				
1/24/2022			5.79			4.03	4.79		
1/25/2022								5.16	
1/26/2022									3.68
9/13/2022				5.04	4.15	4.25			
9/14/2022							4.75		
9/15/2022								5.2	
9/16/2022	5.62								
9/19/2022			5.76						3.98
9/20/2022		6							
2/1/2023				5.17					
2/3/2023			5.77		3.88	4.2			4.02
2/6/2023	5.84	5.97							
2/7/2023							4.89	5.23	
3/16/2023									
3/21/2023									
4/10/2023									
9/11/2023	5.57	5.99							
9/12/2023				5.04	3.99			5.02	
9/13/2023			5.64			4.06	4.74		
9/14/2023									
1/30/2024				5.18					
1/31/2024	5.71	5.95							
2/1/2024			5.67				4.78	5.21	
2/5/2024					4.11	4.33			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/10/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/16/2023	5.66
3/21/2023	6.53
4/10/2023	5.98
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	5.84
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	6.06

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.005								
9/24/2020									
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	
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)								
3/12/2021									
4/15/2021									0.0016 (J)
9/9/2021									
9/10/2021			<0.005						
9/13/2021	<0.005	<0.005			<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	<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									0.0038 (J)
2/2/2023	<0.005		<0.005						
2/3/2023		<0.005		0.0018 (J)					0.005 (J)
2/6/2023						<0.005			
2/7/2023					<0.005		<0.005	<0.005	
9/6/2023	<0.005								
9/7/2023									
9/8/2023		<0.005							
9/11/2023			<0.005		<0.005				
9/12/2023						<0.005			0.0052
9/13/2023				0.0016 (J)			<0.005	<0.005	
1/31/2024	<0.005								
2/1/2024						<0.005	0.025		
2/2/2024		<0.005	<0.005		<0.005				
2/5/2024				0.0015 (J)				<0.005	0.0045 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.005
9/11/2019			<0.005
10/21/2019			<0.005
8/13/2020			<0.005
8/17/2020		0.011	
9/24/2020			<0.005
9/25/2020			
9/28/2020		0.029	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.013	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.005
4/15/2021			
9/9/2021			<0.005
9/10/2021			
9/13/2021		0.011	
9/14/2021			
1/20/2022			<0.005
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			<0.005
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.01	
9/19/2022			
2/2/2023			<0.005
2/3/2023			
2/6/2023	<0.005		
2/7/2023		0.01	
9/6/2023			
9/7/2023	<0.005		<0.005
9/8/2023		0.0087	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.005		<0.005
2/2/2024			
2/5/2024		0.02	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/19/2018		<0.005							
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.005								
1/30/2019		<0.005							
8/27/2019									
8/28/2019									
9/11/2019	<0.005								
9/12/2019		<0.005							
9/18/2019			<0.005						
9/23/2019				<0.005					
10/15/2019									
10/16/2019									
10/21/2019		<0.005		0.0016 (J)	0.0082 (J)				
10/22/2019	<0.005								
10/24/2019			<0.005						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<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						
9/25/2020					0.019	0.0033 (J)			
9/28/2020				0.0021 (J)				0.036	
3/1/2021									
3/4/2021			0.0017 (J)		0.024				
3/5/2021						0.0033 (J)			
3/9/2021								0.0099 (J)	
3/12/2021									
9/9/2021									
9/13/2021						0.0021 (J)			
9/14/2021	<0.005	<0.005	<0.005	<0.005					
9/15/2021							0.0067	0.0076	0.0024 (J)
9/16/2021					0.025				
1/18/2022									
1/20/2022	<0.005		<0.005						
1/21/2022					0.027				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/25/2022		<0.005		0.002 (J)					
1/26/2022							0.0039 (J)	0.0063	0.0015 (J)
1/27/2022						<0.005			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.012	0.013	
9/13/2022			<0.005		0.024				0.0032 (J)
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									0.0036 (J)
2/2/2023	<0.005								
2/3/2023					0.021				
2/6/2023			<0.005						
2/7/2023		<0.005		0.0025 (J)		0.0024 (J)			
9/6/2023							0.0049 (J)	0.0071	0.0031 (J)
9/7/2023	<0.005								
9/11/2023		<0.005		0.0018 (J)					
9/12/2023			<0.005		0.02	0.0027 (J)			
1/30/2024							0.019	0.0063	
1/31/2024									0.0032 (J)
2/1/2024	<0.005	<0.005		0.0028 (J)	0.017				
2/5/2024			<0.005			0.0039 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.005	<0.005
5/11/2017		<0.005	
5/15/2017			<0.005
6/15/2017		<0.005	<0.005
7/11/2017			<0.005
7/12/2017		<0.005	
8/8/2017			<0.005
10/24/2017		<0.005	<0.005
2/19/2018			
2/27/2018			<0.005
3/8/2018		<0.005	
7/10/2018			<0.005
7/12/2018		<0.005	
11/6/2018			<0.005
11/7/2018		<0.005	
1/28/2019			
1/30/2019			
8/27/2019			<0.005
8/28/2019		<0.005	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.005
10/16/2019		<0.005	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			<0.005
3/9/2020		<0.005	
8/11/2020			<0.005
8/13/2020		<0.005	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.005	<0.005
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.005
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.005	
9/9/2021		<0.005	<0.005
9/13/2021			
9/14/2021			
9/15/2021	0.0033 (J)		
9/16/2021			
1/18/2022			<0.005
1/20/2022			
1/21/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/25/2022			
1/26/2022	<0.005		
1/27/2022			
1/28/2022		<0.005	
9/7/2022			<0.005
9/8/2022		<0.005	
9/12/2022			
9/13/2022	<0.005		
9/14/2022			
9/16/2022			
1/31/2023	<0.005		<0.005
2/1/2023		<0.005	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.005		<0.005
9/7/2023		<0.005	
9/11/2023			
9/12/2023			
1/30/2024	<0.005	<0.005	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0366	<0.005			0.0016 (J)			
9/1/2016				0.0017 (J)					0.0093 (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		<0.01
12/8/2016								0.0087 (J)	
3/28/2017	<0.005								
3/29/2017		0.0286	<0.005	0.0017 (J)		<0.005			0.0071 (J)
3/30/2017					0.0015 (J)		<0.005	0.0099 (J)	
5/11/2017									
5/12/2017	<0.005								
6/15/2017									
6/16/2017	<0.005								
7/11/2017	<0.005								
7/12/2017		0.0257	<0.005	0.0019 (J)	<0.01	<0.005	<0.005	0.0072 (J)	0.0065 (J)
10/24/2017	<0.005	0.0281	<0.005						
10/25/2017				0.0024 (J)		<0.005	<0.005	0.0078 (J)	0.0087 (J)
11/15/2017					0.0019 (J)				
2/27/2018	<0.005	0.0667	<0.005	<0.005		<0.005			
2/28/2018					<0.01		<0.005	<0.01	0.0114
7/10/2018	<0.005								
7/11/2018				<0.005		0.002 (J)	<0.005	0.007 (J)	0.0036 (J)
11/6/2018	<0.005	0.049	<0.005						
11/7/2018				<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01 (J)	<0.01	<0.01 (J)
8/27/2019	<0.005	0.015	<0.005	<0.005		<0.005		0.0073 (J)	
8/28/2019					0.0039 (J)		<0.005		0.004 (J)
8/29/2019									
9/17/2019				0.0014 (J)					
10/15/2019	<0.005	0.071	<0.005	0.0019 (J)					
10/16/2019					0.0031 (J)	0.0017 (J)			0.006 (J)
10/17/2019							<0.005		
10/18/2019								0.0093 (J)	
3/2/2020	<0.005		<0.005	<0.005					
3/3/2020		0.021			0.0062 (J)	0.0014 (J)	<0.005		0.0066 (J)
3/4/2020								0.0074 (J)	
8/11/2020	<0.005	0.023	<0.005	0.0019 (J)		<0.005			0.0096 (J)
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			0.0052 (J)
9/23/2020					0.0053 (J)		<0.005		
9/24/2020		0.074						0.015	
3/1/2021	<0.005								
3/2/2021			<0.005		0.006	<0.005	<0.005		0.0091
3/3/2021				<0.005				0.0072	
3/4/2021		0.05							
9/8/2021	<0.005								
9/9/2021			<0.005	<0.005	0.006	0.0017 (J)	<0.005		0.0083
9/10/2021		0.034							
9/13/2021								0.0071	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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)			0.0029 (J)
1/26/2022		0.015							
9/7/2022	<0.005								
9/13/2022						<0.005	<0.005		
9/14/2022								0.0064	0.0073
9/15/2022		0.02	<0.005	<0.005	0.004 (J)				
9/20/2022									
1/31/2023	<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	0.0042 (J)
2/7/2023									
9/6/2023	<0.005								
9/8/2023			<0.005		0.0029 (J)	0.0015 (J)	<0.005		0.0045 (J)
9/11/2023		0.038		<0.005					
9/13/2023								0.0065	
1/30/2024	<0.005								
1/31/2024					0.0039 (J)				
2/1/2024			<0.005						0.0051
2/2/2024		0.031		<0.005					
2/5/2024						0.0019 (J)	0.001 (J)		
2/6/2024								0.0081	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		0.0671	<0.005
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0056 (J)	
12/8/2016			<0.005
3/28/2017			
3/29/2017		0.0521	
3/30/2017	<0.005		<0.005
5/11/2017	<0.005		
5/12/2017			
6/15/2017	<0.005		
6/16/2017			
7/11/2017	<0.005		
7/12/2017		0.0483	<0.005
10/24/2017	<0.005		
10/25/2017		0.0506	<0.005
11/15/2017			
2/27/2018	<0.005		
2/28/2018		0.0755	<0.005
7/10/2018			
7/11/2018	0.0045 (J)	0.022	<0.005
11/6/2018	<0.01 (J)		
11/7/2018		0.044	<0.005
8/27/2019	0.0069 (J)		
8/28/2019			
8/29/2019		0.029	<0.005
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	0.0051 (J)	0.071	<0.005
10/18/2019			
3/2/2020			
3/3/2020	0.0047 (J)		<0.005
3/4/2020		0.071	
8/11/2020	0.0053 (J)		
8/12/2020			
8/13/2020		0.091	
8/14/2020			<0.005
9/22/2020		0.023	
9/23/2020	0.0046 (J)		
9/24/2020			<0.005
3/1/2021			
3/2/2021	0.0037 (J)	0.078	
3/3/2021			<0.005
3/4/2021			
9/8/2021			
9/9/2021	0.0031 (J)		<0.005
9/10/2021		0.031	
9/13/2021			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	0.0031 (J)		<0.005
1/21/2022		0.041	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.062	<0.005
9/20/2022	0.0018 (J)		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	0.0014 (J)		
2/7/2023		0.057	<0.005
9/6/2023			
9/8/2023			
9/11/2023		0.14	<0.005
9/13/2023	<0.005		
1/30/2024			
1/31/2024			<0.005
2/1/2024	0.0014 (J)	0.082	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								0.0032 (J)	0.0833
8/31/2016							0.0182		
9/1/2016					0.0217	0.0084 (J)			
9/2/2016	<0.005								
9/7/2016				<0.005					
12/6/2016							0.012	<0.005	0.0065 (J)
12/8/2016	<0.005			<0.005	0.017	0.0084 (J)			
3/28/2017			<0.005				0.168		0.0954
3/29/2017	<0.005							0.0048 (J)	
3/30/2017		<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)	0.0561
7/12/2017		<0.005							
7/13/2017	<0.005			<0.005	0.0068 (J)	0.0062 (J)			
10/24/2017			<0.005					0.0069 (J)	0.0653
10/25/2017	<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	0.13
2/28/2018	<0.005			<0.005					
3/1/2018		<0.005			0.0124				
3/2/2018						<0.005			
7/11/2018				<0.005					0.045
7/12/2018	0.0017 (J)	<0.005			0.015	0.013			
11/6/2018			<0.005				<0.01 (J)	<0.01 (J)	0.12
11/7/2018	<0.005			<0.005	<0.01 (J)	<0.01 (J)			
11/8/2018		<0.005							
8/27/2019			<0.005				0.0031 (J)		0.067
8/28/2019				<0.005				<0.005	
8/29/2019	<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	0.0062 (J)				0.19
10/18/2019	<0.005	<0.005				0.005 (J)			
3/2/2020			<0.005				0.032		
3/3/2020	<0.005							0.0018 (J)	0.046
3/4/2020		<0.005		<0.005	0.0065 (J)	0.0061 (J)			
8/11/2020									0.11
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								
9/22/2020			<0.005	<0.005			0.04		0.23
9/23/2020					<0.01	0.0016 (J)		0.0028 (J)	
9/24/2020	<0.005	<0.005							
3/1/2021			<0.005						
3/2/2021							0.0081	<0.005	0.07
3/3/2021	<0.005	<0.005		<0.005	0.0039 (J)	0.0025 (J)			
9/9/2021		<0.005							
9/10/2021	<0.005		<0.005		0.0035 (J)	0.0022 (J)	0.0099		0.057
9/13/2021				<0.005				<0.005	
1/20/2022	<0.005	<0.005		<0.005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.0016 (J)				
1/24/2022			<0.005			<0.005	0.0048 (J)		
1/25/2022								<0.005	
1/26/2022									0.025
9/13/2022				<0.005	0.0031 (J)	0.0019 (J)			
9/14/2022							0.019		
9/15/2022								<0.005	
9/16/2022	<0.005								
9/19/2022			<0.005						0.048
9/20/2022		<0.005							
2/1/2023				<0.005					
2/3/2023			<0.005		0.0015 (J)	<0.005			0.031
2/6/2023	<0.005	<0.005							
2/7/2023							0.0082	<0.005	
9/11/2023	<0.005	<0.005							
9/12/2023					0.0022 (J)			<0.005	
9/13/2023			<0.005	<0.005		<0.005	0.002 (J)		
9/14/2023									
1/30/2024				<0.005					
1/31/2024	<0.005	<0.005							
2/1/2024			<0.005				0.0017 (J)	<0.005	
2/5/2024					0.0032 (J)	0.0017 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.005
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
3/3/2021									
3/4/2021			256	474	170	309	309		
3/5/2021		236						270	
3/8/2021	388								
3/12/2021									
4/15/2021									556
9/9/2021									
9/10/2021			271						
9/13/2021	351	174			147	275			
9/14/2021				456			299	243	552
1/20/2022									475
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									489
2/2/2023	356		252						
2/3/2023		159		495					464
2/6/2023						299			
2/7/2023					127		313	229	
9/6/2023	322								
9/7/2023									
9/8/2023		353							
9/11/2023			233		118				
9/12/2023						308			420
9/13/2023				472			296	233	
1/31/2024	340								
2/1/2024						299	337		
2/2/2024		353	222		112				
2/5/2024				449				235	374

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			74.7
10/21/2019			55.3
9/24/2020			50.6
9/25/2020			
9/28/2020		211	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		225	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			46.5
4/15/2021			
9/9/2021			49.2
9/10/2021			
9/13/2021		189	
9/14/2021			
1/20/2022			50.3
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		185	
6/6/2022	97.7		
9/8/2022			45.8
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		234	
9/19/2022			
2/2/2023			52.1
2/3/2023			
2/6/2023	108		
2/7/2023		247	
9/6/2023			
9/7/2023	110		49.3
9/8/2023		233	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	127		49.4
2/2/2024			
2/5/2024		236	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	87.9								
1/30/2019		292							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		302		334	103				
10/22/2019	56.5								
10/24/2019			8.6						
11/22/2019						619			
12/18/2019							481		
12/19/2019								533	
2/17/2020									242
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			2.9						
9/25/2020					107	344			
9/28/2020				287				419	
3/1/2021									
3/4/2021			4.9		113				
3/5/2021						497			
3/9/2021								488	
3/12/2021									
9/9/2021									
9/13/2021						321			
9/14/2021	73.2	268	2.5	326					
9/15/2021							384	478	551
9/16/2021					106				
1/18/2022									
1/20/2022	49.4		<1						
1/21/2022					106				
1/25/2022		240		363					
1/26/2022							305	477	531
1/27/2022						371			
1/28/2022									
9/7/2022									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/8/2022									
9/12/2022							394	508	
9/13/2022			10		109				677
9/14/2022	93.3								
9/16/2022		285		404		433			
1/31/2023							393	536	
2/1/2023									648
2/2/2023	50.1								
2/3/2023					106				
2/6/2023			1.8						
2/7/2023		276		402		435			
9/6/2023							531	555	639
9/7/2023	87.1								
9/11/2023		260		373					
9/12/2023			<1		95.7	449			
1/30/2024							557	550	
1/31/2024									667
2/1/2024	57	256		368	98.3				
2/5/2024			0.78 (J)			433			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		49	2.7
5/11/2017		21	
5/15/2017			1
6/15/2017		16	0.86 (J)
7/11/2017			1.4
7/12/2017		10	
8/8/2017			1.5
10/24/2017		15	1.4
11/15/2017		3.8	
2/27/2018			0.54 (J)
3/8/2018		9.7	
7/10/2018			0.25 (J)
7/12/2018		8	
11/6/2018			<1 (J)
11/7/2018		12.8	
1/28/2019			
1/30/2019			
3/12/2019			0.35 (J)
3/13/2019		23.7	
10/15/2019			0.16 (J)
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	150		
3/2/2020			<1
3/9/2020		9.5	
9/22/2020		13.5	<1
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<1
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		8.8	
9/9/2021		11.9	<1
9/13/2021			
9/14/2021			
9/15/2021	325		
9/16/2021			
1/18/2022			<1
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	18.4		
1/27/2022			
1/28/2022		13.1	
9/7/2022			<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/8/2022		12	
9/12/2022			
9/13/2022	92.1		
9/14/2022			
9/16/2022			
1/31/2023	8.7		<1
2/1/2023		13.3	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	53.9		<1
9/7/2023		15.4	
9/11/2023			
9/12/2023			
1/30/2024	9.2	13.4	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		400	200			44			
9/1/2016				390					240
9/2/2016									
9/6/2016					170		180		
9/7/2016								230	
12/6/2016		190	190			45			
12/7/2016				350	160		180		250
12/8/2016								240	
3/28/2017	17								
3/29/2017		360	200	150		81 (O)			250
3/30/2017					180		210	260	
5/11/2017									
5/12/2017	17								
6/15/2017									
6/16/2017	11								
7/11/2017	11								
7/12/2017		390	210	350	170	44	170	230	250
10/24/2017	9.6	410	210						
10/25/2017				400		42	180	240	270
11/15/2017	7.8	390			180				
2/27/2018	7.4	335	220	356		41			
2/28/2018					43.5		168	203	244
7/10/2018	7.2								
7/11/2018				344		40.6	154	234	249
11/6/2018	7.3	356	302						
11/7/2018				298	162	41.3	168	248	266
3/12/2019	7	297	275	284					
3/13/2019					179	41.2		268	299
3/14/2019							195		
10/15/2019	7.4	263	273	270					
10/16/2019					167	42.1			323
10/17/2019							146		
10/18/2019								222	
3/2/2020	8.5		264	181					
3/3/2020		213			157	45.5	148		292
3/4/2020								222	
9/22/2020	6.5		267	183		40.2			310
9/23/2020					134		146		
9/24/2020		204						259	
3/1/2021	5.2								
3/2/2021			250		131	42.6	148		324
3/3/2021				203				237	
3/4/2021		240							
9/8/2021	6.1								
9/9/2021			247	126	127	42.3	139		315
9/10/2021		271							
9/13/2021								222	
1/18/2022	6.3								
1/20/2022									
1/21/2022									
1/24/2022							127	225	
1/25/2022			250	111	116	44.4			288

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		241							
9/7/2022	7								
9/13/2022						41.2	145		
9/14/2022								268	388
9/15/2022		229	287	191	133				
9/20/2022									
1/31/2023	6.8								
2/1/2023					97.5	45.9			
2/2/2023		235					137		
2/6/2023			273	142				262	379
2/7/2023									
9/6/2023	7.2								
9/8/2023			256		98.7	43.1	126		369
9/11/2023		258		132					
9/13/2023								255	
1/30/2024	7.9								
1/31/2024					100				
2/1/2024			260						394
2/2/2024		336		134					
2/5/2024						44	124		
2/6/2024								261	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		580	300
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		650	
12/8/2016			280
3/28/2017			
3/29/2017		640	
3/30/2017	360		270
5/11/2017	340		
5/12/2017			
6/15/2017	300		
6/16/2017			
7/11/2017	330		
7/12/2017		630	290
10/24/2017	260		
10/25/2017		610	290
11/15/2017			
2/27/2018	189		
2/28/2018		584	267
7/10/2018			
7/11/2018	162	501	277
11/6/2018	190		
11/7/2018		554	286
3/12/2019	159		
3/13/2019		539	312
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	134	426	255
10/18/2019			
3/2/2020			
3/3/2020	118		269
3/4/2020		434	
9/22/2020		408	
9/23/2020	122		
9/24/2020			269
3/1/2021			
3/2/2021	112	458	
3/3/2021			264
3/4/2021			
9/8/2021			
9/9/2021	110		238
9/10/2021		399	
9/13/2021			
1/18/2022			
1/20/2022	101		223
1/21/2022		406	
1/24/2022			
1/25/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		462	268
9/20/2022	98.4		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	96.4		
2/7/2023		517	285
9/6/2023			
9/8/2023			
9/11/2023		552	268
9/13/2023	95.5		
1/30/2024			
1/31/2024			267
2/1/2024	97.6	628	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								450	300
8/31/2016							400		
9/1/2016					470	540			
9/2/2016	140								
9/7/2016				370					
12/6/2016							460	480	320
12/8/2016	260			350	400	540			
3/28/2017			680				380		300
3/29/2017	290							660	
3/30/2017		220				550			
3/31/2017				380	350				
5/12/2017		220	680						
6/15/2017		200	730						
7/11/2017			740				440	440	320
7/12/2017		220							
7/13/2017	300			370	270	500			
10/24/2017			930					430	430
10/25/2017	290			370			510		
10/26/2017		220			290	510			
11/15/2017			820						
2/27/2018			811				453	340	327
2/28/2018	278			350					
3/1/2018		209			245				
3/2/2018						456			
7/11/2018				366					344
7/12/2018	197	202			240	409			
11/6/2018			902				556	307	438
11/7/2018	320			439	143	432			
11/8/2018		292							
3/12/2019			987				484	295	362
3/14/2019	297	266		404	238	450			
10/15/2019			888						
10/16/2019							493	235	
10/17/2019				321	179				331
10/18/2019	254	203				336			
3/2/2020			840				455		
3/3/2020	242							195	247
3/4/2020		204		329	176	368			
9/22/2020			800	320			423		282
9/23/2020					111	313		178	
9/24/2020	262	215							
3/1/2021			840						
3/2/2021							412	152	266
3/3/2021	252	221		329	143	312			
9/9/2021		217							
9/10/2021	234		823		123	272	449		264
9/13/2021				285				145	
1/20/2022	221	211		281					
1/21/2022					135				
1/24/2022			816			265	434		
1/25/2022								134	
1/26/2022									245

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				326	150	309			
9/14/2022							505		
9/15/2022								134	
9/16/2022	265								
9/19/2022			925						274
9/20/2022		242							
2/1/2023				313					
2/3/2023			949		138	301			277
2/6/2023	235	262							
2/7/2023							577	118	
3/21/2023									
4/10/2023									
9/11/2023	236	275							
9/12/2023					119			134	
9/13/2023			852	294		268	576		
9/14/2023									
1/30/2024				294					
1/31/2024	224	279							
2/1/2024			824				539	138	
2/5/2024					118	258			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	436
4/10/2023	507
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	465
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	434

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
9/11/2019									
10/21/2019									
8/13/2020									
8/17/2020	<0.001								
9/24/2020									
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	
3/3/2021									
3/4/2021			<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2021		<0.001						<0.001	
3/8/2021	<0.001								
3/12/2021									
4/15/2021									<0.001
9/9/2021									
9/10/2021			<0.001						
9/13/2021	<0.001	<0.001			<0.001	<0.001			
9/14/2021				<0.001			<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									<0.001
2/2/2023	<0.001		<0.001						
2/3/2023		<0.001		<0.001					<0.001
2/6/2023						<0.001			
2/7/2023					<0.001		<0.001	<0.001	
9/6/2023	<0.001								
9/7/2023									
9/8/2023		<0.001							
9/11/2023			<0.001		<0.001				
9/12/2023						<0.001			<0.001
9/13/2023				0.00028 (J)			<0.001	<0.001	
1/31/2024	<0.001								
2/1/2024						<0.001	<0.001		
2/2/2024		<0.001	<0.001		<0.001				
2/5/2024				<0.001				<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			<0.001
9/11/2019			<0.001
10/21/2019			<0.001
8/13/2020			<0.001
8/17/2020		0.00016 (J)	
9/24/2020			<0.001
9/25/2020			
9/28/2020		0.00023 (J)	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		0.00026 (J)	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			<0.001
4/15/2021			
9/9/2021			<0.001
9/10/2021			
9/13/2021		0.00024 (J)	
9/14/2021			
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			<0.001
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		0.00024 (J)	
9/19/2022			
2/2/2023			<0.001
2/3/2023			
2/6/2023	<0.001		
2/7/2023		0.00028 (J)	
9/6/2023			
9/7/2023	<0.001		<0.001
9/8/2023		0.00021 (J)	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	<0.001		<0.001
2/2/2024			
2/5/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	<0.001								
1/30/2019		<0.001							
8/27/2019									
8/28/2019									
9/11/2019	<0.001								
9/12/2019		<0.001							
9/18/2019			<0.001						
9/23/2019				9.9E-05 (J)					
10/15/2019									
10/16/2019									
10/21/2019		<0.001		0.00011 (J)	7.2E-05 (J)				
10/22/2019	<0.001								
10/24/2019			<0.001						
3/2/2020									
3/9/2020									
8/11/2020									
8/13/2020			<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						
9/25/2020					<0.001	<0.001			
9/28/2020				<0.001				<0.001	
3/1/2021									
3/4/2021			<0.001		<0.001				
3/5/2021						0.0002 (J)			
3/9/2021								<0.001	
3/12/2021									
9/9/2021									
9/13/2021						<0.001			
9/14/2021	<0.001	<0.001	<0.001	<0.001					
9/15/2021							<0.001	<0.001	<0.001
9/16/2021					<0.001				
1/18/2022									
1/20/2022	<0.001		<0.001						
1/21/2022					<0.001				
1/25/2022		<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
1/26/2022							<0.001	<0.001	<0.001
1/27/2022						<0.001			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							0.0002 (J)	<0.001	
9/13/2022			<0.001		<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									<0.001
2/2/2023	<0.001								
2/3/2023					<0.001				
2/6/2023			<0.001						
2/7/2023		<0.001		<0.001		<0.001			
9/6/2023							<0.001	<0.001	<0.001
9/7/2023	<0.001								
9/11/2023		0.00021 (J)		<0.001					
9/12/2023			<0.001		<0.001	<0.001			
1/30/2024							<0.001	<0.001	
1/31/2024									<0.001
2/1/2024	<0.001	<0.001		<0.001	<0.001				
2/5/2024			<0.001			<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		<0.001	<0.001
5/11/2017		<0.001	
5/15/2017			<0.001
6/15/2017		<0.001	<0.001
7/11/2017			<0.001
7/12/2017		<0.001	
8/8/2017			<0.001
10/24/2017		<0.001	<0.001
2/27/2018			<0.001
3/8/2018		<0.001	
7/10/2018			<0.001
7/12/2018		<0.001	
11/6/2018			<0.001
11/7/2018		<0.001	
1/28/2019			
1/30/2019			
8/27/2019			<0.001
8/28/2019		<0.001	
9/11/2019			
9/12/2019			
9/18/2019			
9/23/2019			
10/15/2019			<0.001
10/16/2019		<0.001	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			7.8E-05 (J)
3/9/2020		<0.001	
8/11/2020			<0.001
8/13/2020		<0.001	
8/14/2020			
8/17/2020			
8/19/2020			
9/22/2020		<0.001	<0.001
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			<0.001
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		<0.001	
9/9/2021		<0.001	<0.001
9/13/2021			
9/14/2021			
9/15/2021	<0.001		
9/16/2021			
1/18/2022			<0.001
1/20/2022			
1/21/2022			
1/25/2022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
1/26/2022	<0.001		
1/27/2022			
1/28/2022		<0.001	
9/7/2022			<0.001
9/8/2022		<0.001	
9/12/2022			
9/13/2022	<0.001		
9/14/2022			
9/16/2022			
1/31/2023	<0.001		<0.001
2/1/2023		<0.001	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	<0.001		0.00053 (J)
9/7/2023		<0.001	
9/11/2023			
9/12/2023			
1/30/2024	<0.001	<0.001	
1/31/2024			
2/1/2024			
2/5/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		0.0004 (J)	<0.001			<0.001			
9/1/2016				<0.001					0.0005 (J)
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		0.0005 (J)
12/8/2016								<0.001	
3/28/2017	6E-05 (J)								
3/29/2017		0.0006 (J)	<0.001	8E-05 (J)		<0.001			0.0004 (J)
3/30/2017					<0.001		<0.001	0.0002 (J)	
5/11/2017									
5/12/2017	<0.001								
6/15/2017									
6/16/2017	<0.001								
7/11/2017	<0.001								
7/12/2017		0.0005 (J)	<0.001	9E-05 (J)	<0.001	<0.001	<0.001	0.0002 (J)	0.0005 (J)
10/24/2017	<0.001	0.0004 (J)	<0.001						
10/25/2017				9E-05 (J)		<0.001	<0.001	0.0002 (J)	0.0004 (J)
11/15/2017					<0.001				
2/27/2018	<0.001	<0.005	<0.001	<0.001		<0.001			
2/28/2018					<0.001		<0.001	0.00015 (J)	0.00049 (J)
7/10/2018	<0.001								
7/11/2018				<0.001		<0.001	<0.001	0.00017 (J)	0.0005 (J)
11/6/2018	<0.001	<0.001 (J)	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001 (J)	<0.001	<0.001 (J)
8/27/2019	<0.001	0.00036 (J)	<0.001	8.9E-05 (J)		<0.001		0.00018 (J)	
8/28/2019					<0.001		<0.001		0.00053 (J)
8/29/2019									
9/17/2019				9.7E-05 (J)					
10/15/2019	<0.001	0.00039 (J)	<0.001	9.1E-05 (J)					
10/16/2019					<0.001	<0.001			0.00053 (J)
10/17/2019							<0.001		
10/18/2019								0.00014 (J)	
3/2/2020	<0.001		<0.001	0.00013 (J)					
3/3/2020		0.00042 (J)			<0.001	<0.001	<0.001		0.0006 (J)
3/4/2020								0.00019 (J)	
8/11/2020	<0.001	0.00037 (J)	<0.001	<0.001		<0.001			0.00059 (J)
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			0.0005 (J)
9/23/2020					<0.001		<0.001		
9/24/2020		0.00034 (J)						0.00018 (J)	
3/1/2021	<0.001								
3/2/2021			<0.001		<0.001	<0.001	<0.001		0.00056 (J)
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		0.00056 (J)
9/10/2021		0.00027 (J)							
9/13/2021								<0.001	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/18/2022	<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			0.00057 (J)
1/26/2022		0.00033 (J)							
9/7/2022	<0.001								
9/13/2022						<0.001	<0.001		
9/14/2022								<0.001	0.00056 (J)
9/15/2022		<0.005	<0.001	<0.001	<0.001				
9/20/2022									
1/31/2023	<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	0.00059 (J)
2/7/2023									
9/6/2023	<0.001								
9/8/2023			<0.001		<0.001	0.00056 (J)	<0.001		0.0005 (J)
9/11/2023		<0.005		0.00021 (J)					
9/13/2023								<0.001	
1/30/2024	<0.001								
1/31/2024					<0.001				
2/1/2024			<0.001						0.00057 (J)
2/2/2024		<0.005		<0.001					
2/5/2024						<0.001	<0.001		
2/6/2024								<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		<0.01	<0.001
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		0.0006 (J)	
12/8/2016			<0.001
3/28/2017			
3/29/2017		0.0006 (J)	
3/30/2017	<0.001		<0.001
5/11/2017	<0.001		
5/12/2017			
6/15/2017	<0.001		
6/16/2017			
7/11/2017	<0.001		
7/12/2017		0.0006 (J)	<0.001
10/24/2017	<0.001		
10/25/2017		0.0005 (J)	<0.001
11/15/2017			
2/27/2018	<0.001		
2/28/2018		<0.01	<0.001
7/10/2018			
7/11/2018	<0.001	<0.01	<0.001
11/6/2018	<0.001		
11/7/2018		<0.001 (J)	<0.001
8/27/2019	<0.001		
8/28/2019			
8/29/2019		0.00084 (J)	<0.001
9/17/2019			
10/15/2019			
10/16/2019			
10/17/2019	<0.001	0.00062 (J)	<0.001
10/18/2019			
3/2/2020			
3/3/2020	<0.001		<0.001
3/4/2020		0.0023 (J)	
8/11/2020	<0.001		
8/12/2020			
8/13/2020		0.0016 (J)	
8/14/2020			<0.001
9/22/2020		0.00055 (J)	
9/23/2020	<0.001		
9/24/2020			<0.001
3/1/2021			
3/2/2021	<0.001	0.0014 (J)	
3/3/2021			<0.001
3/4/2021			
9/8/2021			
9/9/2021	<0.001		<0.001
9/10/2021		0.00052 (J)	
9/13/2021			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/18/2022			
1/20/2022	<0.001		<0.001
1/21/2022		<0.01	
1/24/2022			
1/25/2022			
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		0.001 (J)	<0.001
9/20/2022	<0.001		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	<0.001		
2/7/2023		0.0018 (J)	<0.001
9/6/2023			
9/8/2023			
9/11/2023		<0.01	<0.001
9/13/2023	<0.001		
1/30/2024			
1/31/2024			<0.001
2/1/2024	<0.001	<0.01	
2/2/2024			
2/5/2024			
2/6/2024			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	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			
9/2/2016	<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	<0.001			
3/28/2017			<0.001				0.0002 (J)		0.0007 (J)
3/29/2017	6E-05 (J)							0.0002 (J)	
3/30/2017		<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)	0.0007 (J)
7/12/2017		<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)	0.0006 (J)
10/25/2017	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)	0.00038 (J)
2/28/2018	<0.001			<0.001					
3/1/2018		<0.001			0.00032 (J)				
3/2/2018						<0.001			
7/11/2018				<0.001					<0.005
7/12/2018	<0.001	<0.001			0.00031 (J)	<0.001			
11/6/2018			<0.001				<0.001	<0.001 (J)	<0.005
11/7/2018	<0.001			<0.001	<0.001 (J)	<0.001			
11/8/2018		<0.001 (J)							
8/27/2019			<0.001				<0.001		0.00053 (J)
8/28/2019				6.9E-05 (J)				0.00022 (J)	
8/29/2019	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	0.00025 (J)				0.00076 (J)
10/18/2019	<0.001	<0.001				<0.001			
3/2/2020			<0.001				6.2E-05 (J)		
3/3/2020	7E-05 (J)							0.00023 (J)	0.00044 (J)
3/4/2020		<0.001		<0.001	0.00021 (J)	6.8E-05 (J)			
8/11/2020									<0.005
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								
9/22/2020			<0.001	<0.001			<0.001		0.00043 (J)
9/23/2020					0.00026 (J)	<0.001		0.0002 (J)	
9/24/2020	<0.001	<0.001							
3/1/2021			<0.001						
3/2/2021							<0.001	0.00019 (J)	<0.005
3/3/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001			
9/9/2021		<0.001							
9/10/2021	<0.001		<0.001		0.00036 (J)	<0.001	<0.001		0.0004 (J)
9/13/2021				<0.001				0.00019 (J)	
1/20/2022	<0.001	<0.001		<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
1/21/2022					0.00028 (J)				
1/24/2022			<0.001			<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	
9/16/2022	<0.001								
9/19/2022			<0.001						<0.005
9/20/2022		<0.001							
2/1/2023				0.00028 (J)					
2/3/2023			<0.001		0.00022 (J)	<0.001			<0.005
2/6/2023	<0.001	<0.001							
2/7/2023							<0.001	<0.001	
9/11/2023	<0.001	<0.001							
9/12/2023					0.00019 (J)			<0.001	
9/13/2023			<0.001	<0.001		<0.001	<0.001		
9/14/2023									
1/30/2024				<0.001					
1/31/2024	<0.001	<0.001							
2/1/2024			<0.001				<0.001	<0.001	
2/5/2024					<0.001	<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
8/27/2019	
8/28/2019	
8/29/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
8/11/2020	
8/12/2020	
8/13/2020	
8/14/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	<0.001
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 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-111D	B-120D
1/30/2019									
10/21/2019									
9/24/2020									
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	
3/3/2021									
3/4/2021			459	818	321	525	569		
3/5/2021		462						634	
3/8/2021	660								
3/12/2021									
4/15/2021									982
9/9/2021									
9/10/2021			474						
9/13/2021	636	343			296	567			
9/14/2021				776			576	586	882
1/20/2022									816
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									867
2/2/2023	595		466						
2/3/2023		313		842					803
2/6/2023						608			
2/7/2023					246		563	489	
9/6/2023	641								
9/7/2023									
9/8/2023		668							
9/11/2023			442		304				
9/12/2023						560			743
9/13/2023				839			607	506	
1/31/2024	582								
2/1/2024						580	629		
2/2/2024		649	414		252				
2/5/2024				830				586	710

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-122D	B-56	B-62
1/30/2019			287
10/21/2019			180
9/24/2020			170
9/25/2020			
9/28/2020		320	
12/9/2020			
12/17/2020			
1/11/2021			
1/12/2021			
3/3/2021		303	
3/4/2021			
3/5/2021			
3/8/2021			
3/12/2021			172
4/15/2021			
9/9/2021			174
9/10/2021			
9/13/2021		321	
9/14/2021			
1/20/2022			187
1/21/2022			
1/24/2022			
1/25/2022			
1/26/2022			
1/27/2022		344	
6/6/2022	307		
9/8/2022			160
9/13/2022			
9/14/2022			
9/15/2022			
9/16/2022		353	
9/19/2022			
2/2/2023			197
2/3/2023			
2/6/2023	392		
2/7/2023		379	
9/6/2023			
9/7/2023	324		181
9/8/2023		402	
9/11/2023			
9/12/2023			
9/13/2023			
1/31/2024			
2/1/2024	361		205
2/2/2024			
2/5/2024		421	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
3/28/2017									
5/11/2017									
5/15/2017									
6/15/2017									
7/11/2017									
7/12/2017									
8/8/2017									
10/24/2017									
11/15/2017									
2/27/2018									
3/8/2018									
7/10/2018									
7/12/2018									
11/6/2018									
11/7/2018									
1/28/2019	204								
1/30/2019		601							
3/12/2019									
3/13/2019									
10/15/2019									
10/16/2019									
10/21/2019		617		458	214				
10/22/2019	178								
10/24/2019			106						
3/2/2020									
3/9/2020									
9/22/2020									
9/24/2020			124						
9/25/2020					244	624			
9/28/2020				454				686	
3/1/2021									
3/4/2021			128		234				
3/5/2021						798			
3/9/2021								790	
3/12/2021									
9/9/2021									
9/13/2021						572			
9/14/2021	170	490	94	536					
9/15/2021							612	812	892
9/16/2021					223				
1/18/2022									
1/20/2022	177		129						
1/21/2022					236				
1/25/2022		482		668					
1/26/2022							572	766	930
1/27/2022						654			
1/28/2022									
9/7/2022									
9/8/2022									
9/12/2022							696	884	
9/13/2022			113		210				1050
9/14/2022	206								

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-66	B-77	B-82	B-83	B-88	B-92	B-93	B-97
9/16/2022		498		468		564			
1/31/2023							688	898	
2/1/2023									1170
2/2/2023	198								
2/3/2023					214				
2/6/2023			92						
2/7/2023		497		611		685			
9/6/2023							1020	1020	1190
9/7/2023	186								
9/11/2023		484		612					
9/12/2023			98		204	752			
1/30/2024							952	992	
1/31/2024									1150
2/1/2024	185	498		641	212				
2/5/2024			122			802			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
3/28/2017		202	39
5/11/2017		241	
5/15/2017			88
6/15/2017		251	65
7/11/2017			25
7/12/2017		218	
8/8/2017			53
10/24/2017		671 (O)	49
11/15/2017		241	
2/27/2018			43
3/8/2018		213	
7/10/2018			80
7/12/2018		198	
11/6/2018			65
11/7/2018		200	
1/28/2019			
1/30/2019			
3/12/2019			43
3/13/2019		201	
10/15/2019			70
10/16/2019		126	
10/21/2019			
10/22/2019			
10/24/2019			
3/2/2020			52
3/9/2020		171	
9/22/2020		142	46
9/24/2020			
9/25/2020			
9/28/2020			
3/1/2021			25
3/4/2021			
3/5/2021			
3/9/2021			
3/12/2021		124	
9/9/2021		131	53
9/13/2021			
9/14/2021			
9/15/2021	524		
9/16/2021			
1/18/2022			54
1/20/2022			
1/21/2022			
1/25/2022			
1/26/2022	139		
1/27/2022			
1/28/2022		155	
9/7/2022			34
9/8/2022		129	
9/12/2022			
9/13/2022	267		
9/14/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-98	DGWA-53 (bg)	DGWA-70A (bg)
9/16/2022			
1/31/2023	147		163
2/1/2023		116	
2/2/2023			
2/3/2023			
2/6/2023			
2/7/2023			
9/6/2023	207		46
9/7/2023		123	
9/11/2023			
9/12/2023			
1/30/2024	154	130	
1/31/2024			
2/1/2024			
2/5/2024			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
8/31/2016		525	307			106			
9/1/2016				568					396
9/2/2016									
9/6/2016					296		304		
9/7/2016								353	
12/6/2016		595	358			138			
12/7/2016				559	270		287		400
12/8/2016								408	
3/28/2017	90								
3/29/2017		525	300	550		102			390
3/30/2017					287		312	338	
5/11/2017									
5/12/2017	92								
6/15/2017									
6/16/2017	100								
7/11/2017	59								
7/12/2017		598	382	594	312	118	490 (O)	417	360
10/24/2017	117	353	342						
10/25/2017				571		88	290	343	423
11/15/2017	90	582			325				
2/27/2018	79	542	393	582		99			
2/28/2018					84		313	364	440
7/10/2018	88								
7/11/2018				593		119	320	393	457
11/6/2018	85	512	412						
11/7/2018				504	314	113	325	408	461
3/12/2019	74	436	433	465					
3/13/2019					656	280		802	113
3/14/2019							340		
10/15/2019	89	447	461	472					
10/16/2019					296	104			500
10/17/2019							319		
10/18/2019								403	
3/2/2020	67		458	338					
3/3/2020		382			263	123	323		526
3/4/2020								414	
9/22/2020	74		481	338		105			513
9/23/2020					278		317		
9/24/2020		283						411	
3/1/2021	62								
3/2/2021			456		256	105	272		513
3/3/2021				325				384	
3/4/2021		430							
9/8/2021	75								
9/9/2021			433	275	246	99	292		480
9/10/2021		474							
9/13/2021								424	
1/18/2022	76								
1/20/2022									
1/21/2022									
1/24/2022							294	426	
1/25/2022			465	258	256	120			694

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-71 (bg)	DGWC-10	DGWC-11	DGWC-12	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19
1/26/2022		425							
9/7/2022	82								
9/13/2022						80	289		
9/14/2022								434	572
9/15/2022		280	414	377	216				
9/20/2022									
1/31/2023	87								
2/1/2023					216	116			
2/2/2023		390					288		
2/6/2023			481	251				403	600
2/7/2023									
9/6/2023	80								
9/8/2023			451		217	156	274		634
9/11/2023		436		302					
9/13/2023								480	
1/30/2024	86								
1/31/2024					216				
2/1/2024			463						656
2/2/2024		548		274					
2/5/2024						127	288		
2/6/2024								477	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
8/31/2016			
9/1/2016			
9/2/2016		1100	459
9/6/2016			
9/7/2016			
12/6/2016			
12/7/2016		930	
12/8/2016			491
3/28/2017			
3/29/2017		923	
3/30/2017	580		436
5/11/2017	573		
5/12/2017			
6/15/2017	626		
6/16/2017			
7/11/2017	542		
7/12/2017		956	505
10/24/2017	523		
10/25/2017		854	474
11/15/2017			
2/27/2018	401		
2/28/2018		888	480
7/10/2018			
7/11/2018	334	826	485
11/6/2018	334		
11/7/2018		834	516
3/12/2019	297		
3/13/2019		639	486
3/14/2019			
10/15/2019			
10/16/2019			
10/17/2019	302	751	498
10/18/2019			
3/2/2020			
3/3/2020	277		490
3/4/2020		761	
9/22/2020		724	
9/23/2020	267		
9/24/2020			494
3/1/2021			
3/2/2021	241	742	
3/3/2021			459
3/4/2021			
9/8/2021			
9/9/2021	260		396
9/10/2021		678	
9/13/2021			
1/18/2022			
1/20/2022	238		451
1/21/2022		702	
1/24/2022			
1/25/2022			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-2	DGWC-20	DGWC-21
1/26/2022			
9/7/2022			
9/13/2022			
9/14/2022			
9/15/2022		618	440
9/20/2022	230		
1/31/2023			
2/1/2023			
2/2/2023			
2/6/2023	226		
2/7/2023		848	498
9/6/2023			
9/8/2023			
9/11/2023		960	519
9/13/2023	212		
1/30/2024			
1/31/2024			503
2/1/2024	220	1050	
2/2/2024			
2/5/2024			
2/6/2024			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016								693	414
8/31/2016							524		
9/1/2016					704	845			
9/2/2016	502								
9/7/2016				611					
12/6/2016							690	727	449
12/8/2016	464			535	587	777			
3/28/2017			1160				545		404
3/29/2017	462							654	
3/30/2017		380				775			
3/31/2017				661	545				
5/12/2017		438	1230						
6/15/2017		458	1290						
7/11/2017			1160				612	679	436
7/12/2017		461							
7/13/2017	492			641	441	789			
10/24/2017			229					468	599
10/25/2017	477			626			650		
10/26/2017		446			444	753			
11/15/2017			1330						
2/27/2018			1380				698	520	482
2/28/2018	476			616					
3/1/2018		454			435				
3/2/2018						704			
7/11/2018				638					532
7/12/2018	486	432			372	705			
11/6/2018			1480				809	456	554
11/7/2018	511			626	348	678			
11/8/2018		450							
3/12/2019			1490				711	438	493
3/14/2019	491	453		630	378	625			
10/15/2019			1520						
10/16/2019							702	374	
10/17/2019				612	327				550
10/18/2019	480	448				593			
3/2/2020			1540				759		
3/3/2020	452							369	444
3/4/2020		408		721	334	630			
9/22/2020			1400	547			716		461
9/23/2020					229	575		333	
9/24/2020	455	456							
3/1/2021			1140						
3/2/2021							730	291	449
3/3/2021	442	425		531	228	521			
9/9/2021		455							
9/10/2021	468		1520		274	532	792		466
9/13/2021				508				306	
1/20/2022	434	453		504					
1/21/2022					289				
1/24/2022			1520			500	810		
1/25/2022								281	
1/26/2022									409

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
9/13/2022				540	277	527			
9/14/2022							850		
9/15/2022								234	
9/16/2022	462								
9/19/2022			1670						456
9/20/2022		511							
2/1/2023				541					
2/3/2023			1630		259	527			437
2/6/2023	427	532							
2/7/2023							939	223	
3/21/2023									
4/10/2023									
9/11/2023	460	582							
9/12/2023					218			251	
9/13/2023			1520	545		473	1020		
9/14/2023									
1/30/2024				551					
1/31/2024	423	564							
2/1/2024			1450				948	272	
2/5/2024					253	496			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/7/2016	
12/6/2016	
12/8/2016	
3/28/2017	
3/29/2017	
3/30/2017	
3/31/2017	
5/12/2017	
6/15/2017	
7/11/2017	
7/12/2017	
7/13/2017	
10/24/2017	
10/25/2017	
10/26/2017	
11/15/2017	
2/27/2018	
2/28/2018	
3/1/2018	
3/2/2018	
7/11/2018	
7/12/2018	
11/6/2018	
11/7/2018	
11/8/2018	
3/12/2019	
3/14/2019	
10/15/2019	
10/16/2019	
10/17/2019	
10/18/2019	
3/2/2020	
3/3/2020	
3/4/2020	
9/22/2020	
9/23/2020	
9/24/2020	
3/1/2021	
3/2/2021	
3/3/2021	
9/9/2021	
9/10/2021	
9/13/2021	
1/20/2022	
1/21/2022	
1/24/2022	
1/25/2022	
1/26/2022	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:09 PM View: AP 234

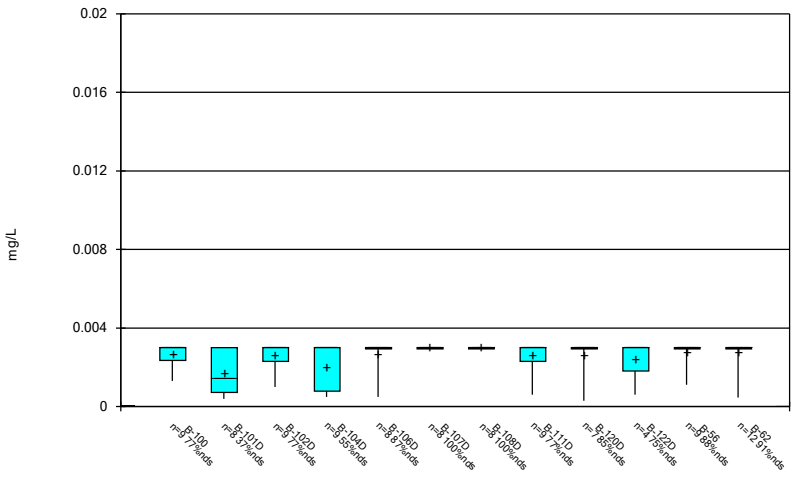
Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
9/13/2022	
9/14/2022	
9/15/2022	
9/16/2022	
9/19/2022	
9/20/2022	
2/1/2023	
2/3/2023	
2/6/2023	
2/7/2023	
3/21/2023	753
4/10/2023	908
9/11/2023	
9/12/2023	
9/13/2023	
9/14/2023	853
1/30/2024	
1/31/2024	
2/1/2024	
2/5/2024	864

FIGURE B.

Sanitas™ v.10.0.16 . UG

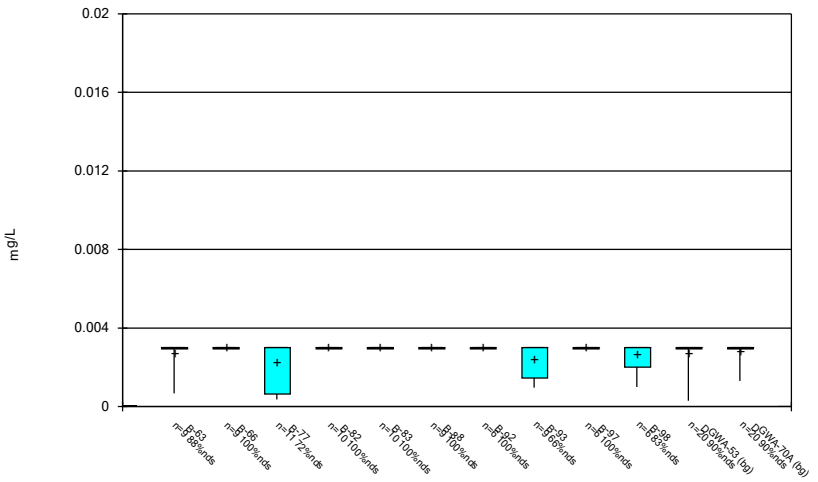
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/3/2024 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

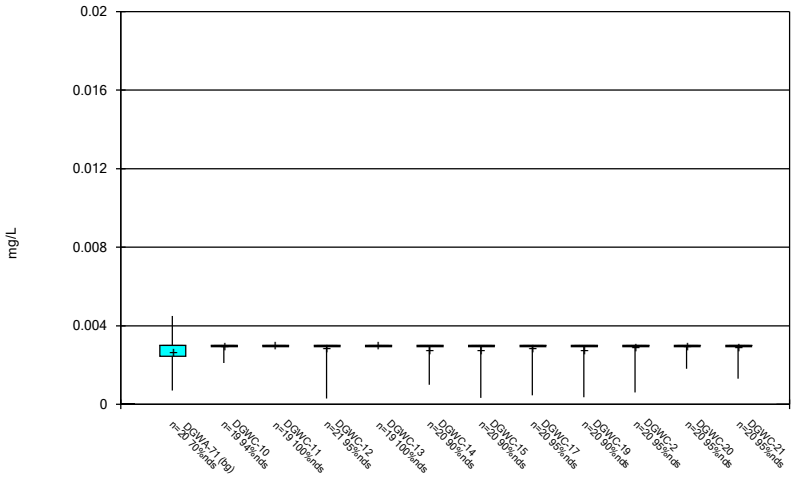
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/3/2024 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

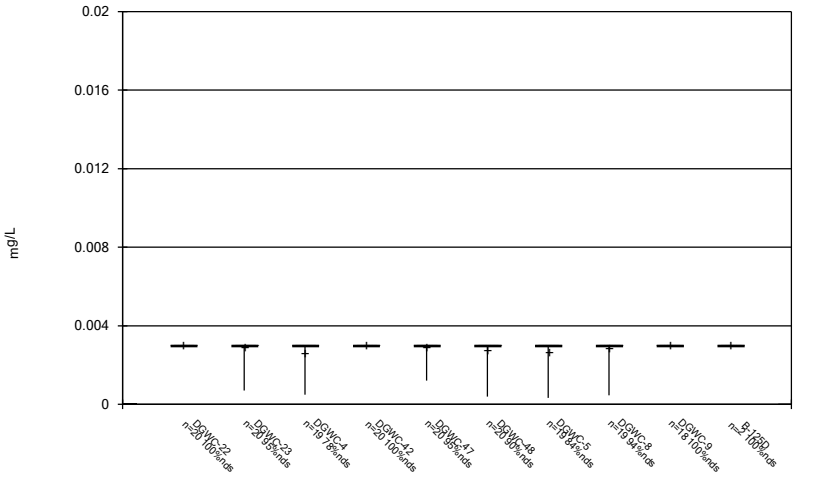
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/3/2024 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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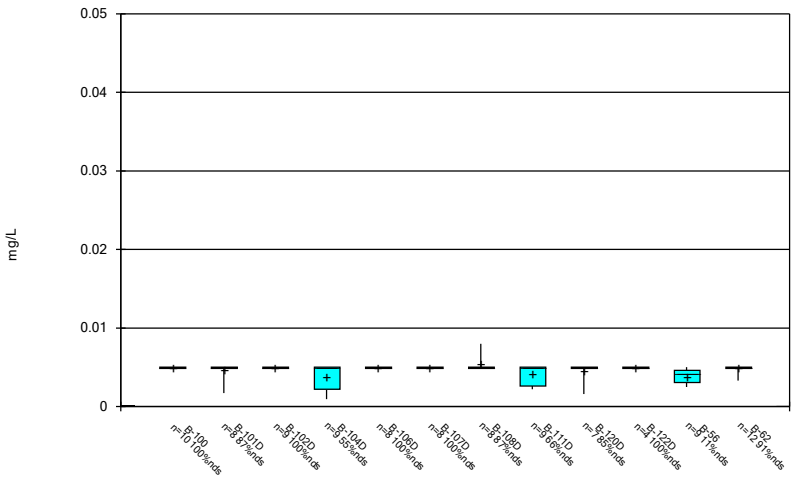
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

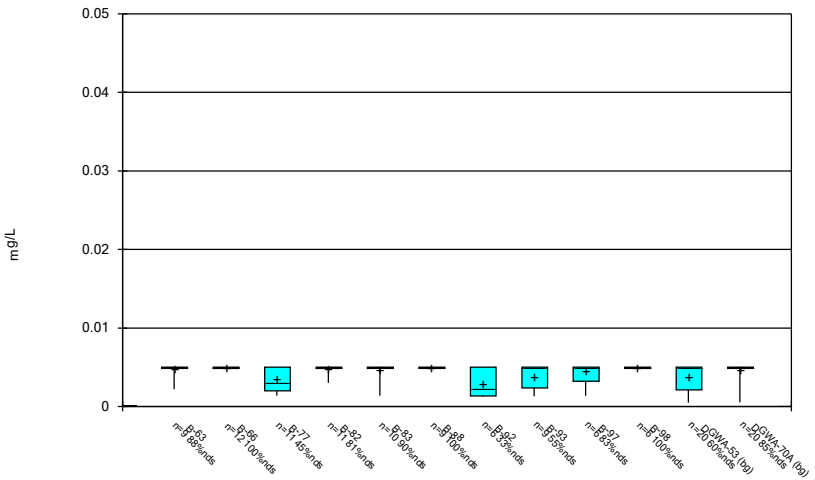
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/3/2024 4:11 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

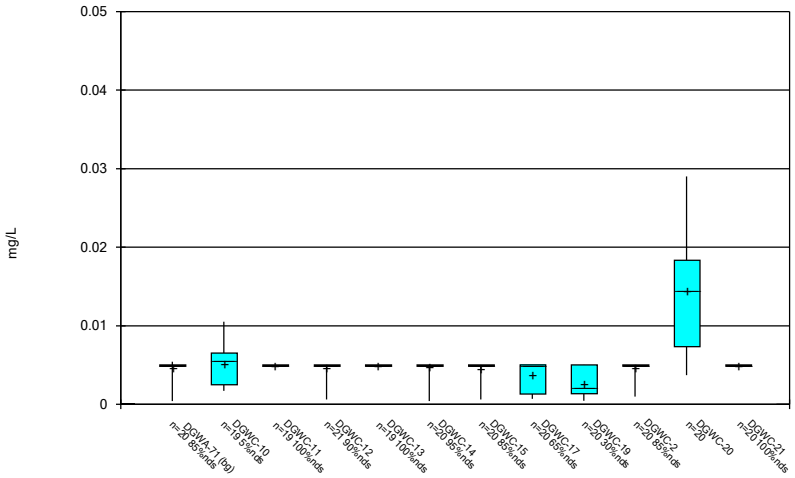
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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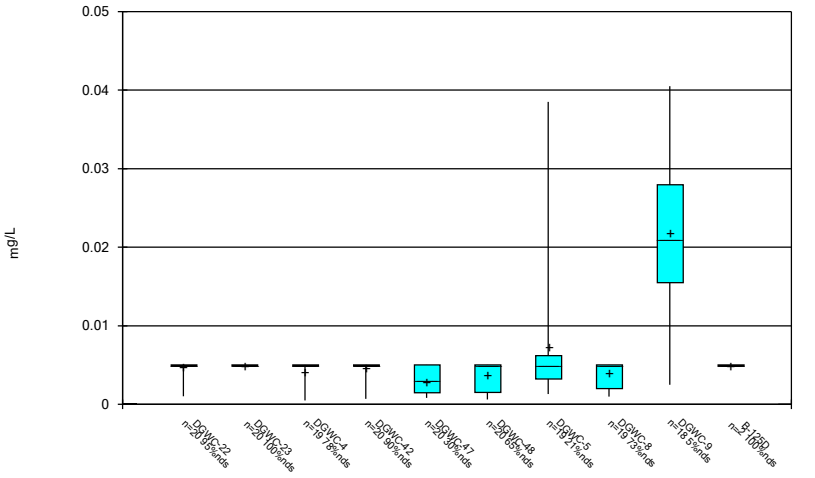
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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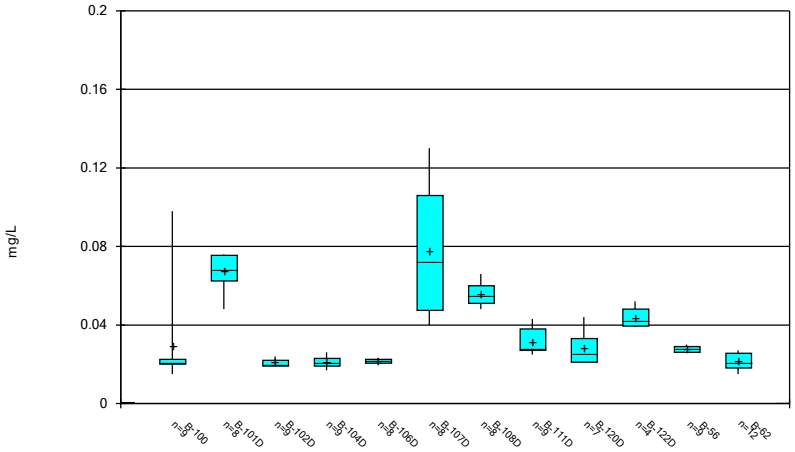
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

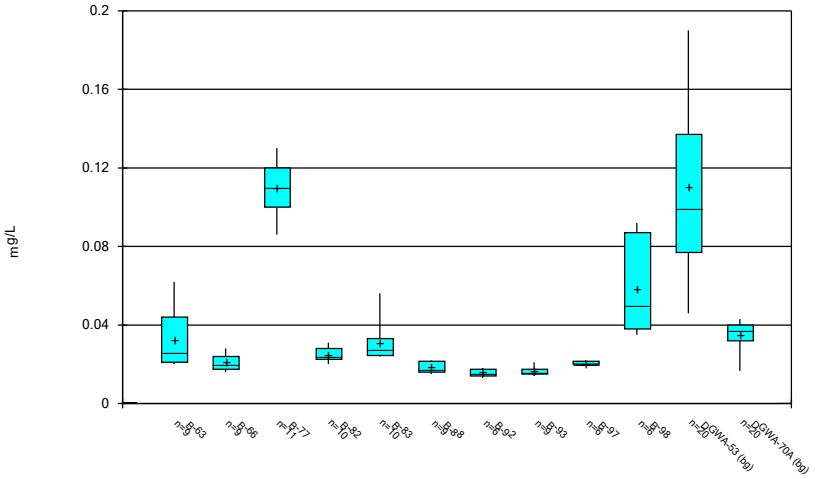
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

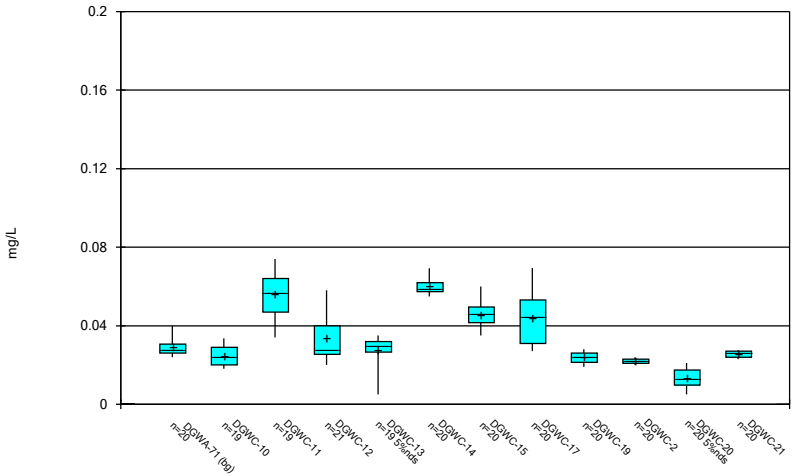
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

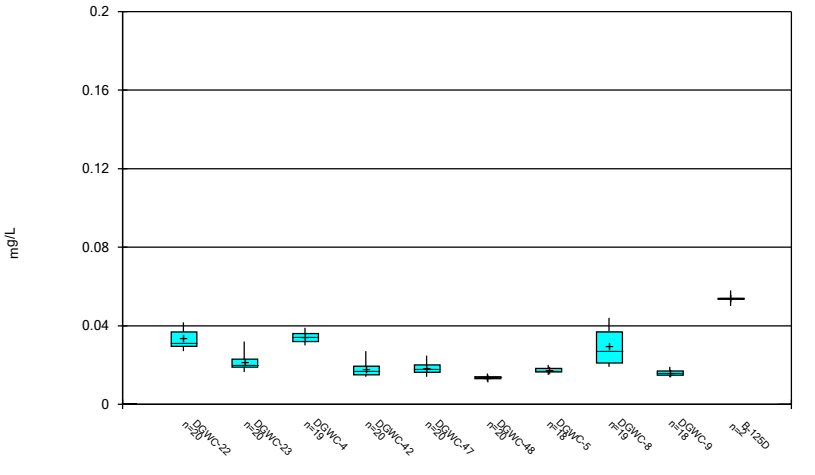
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

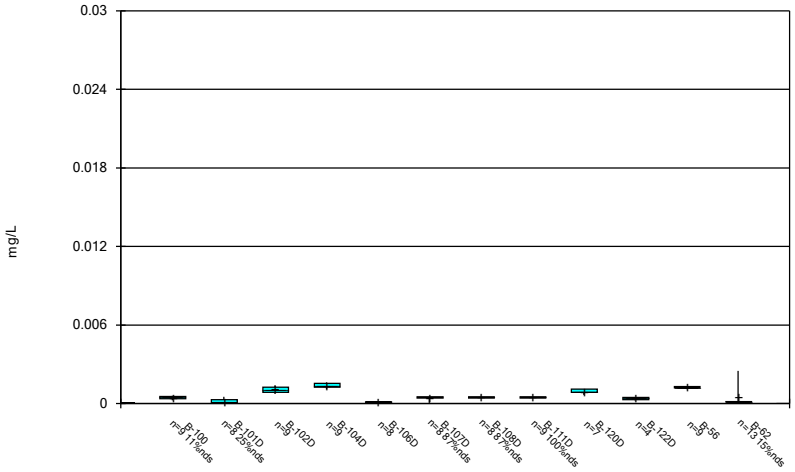
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

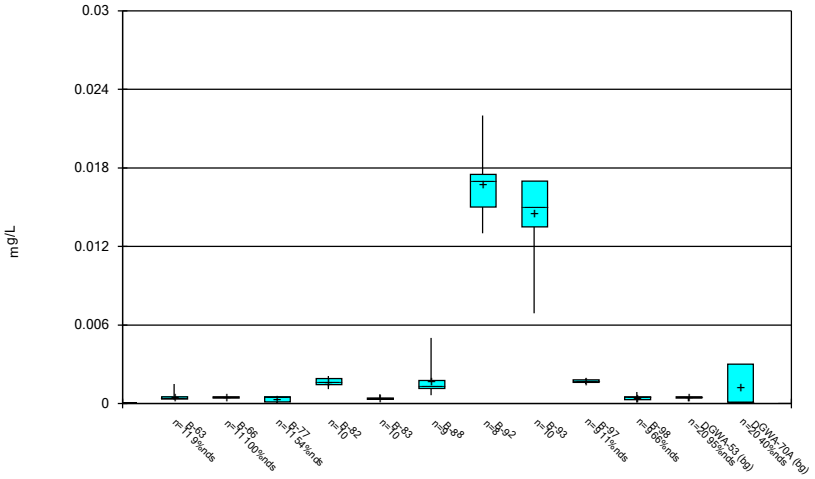
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

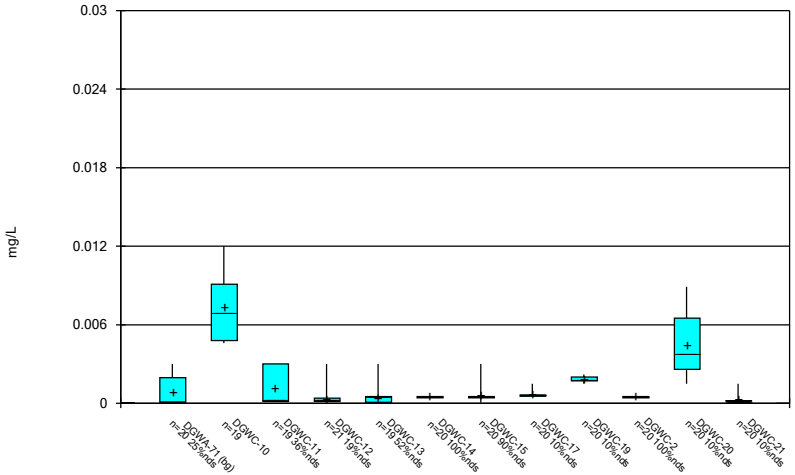
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

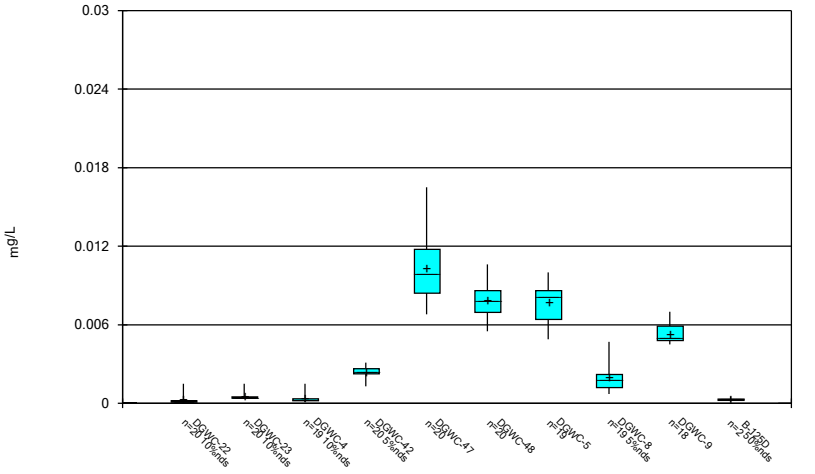
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

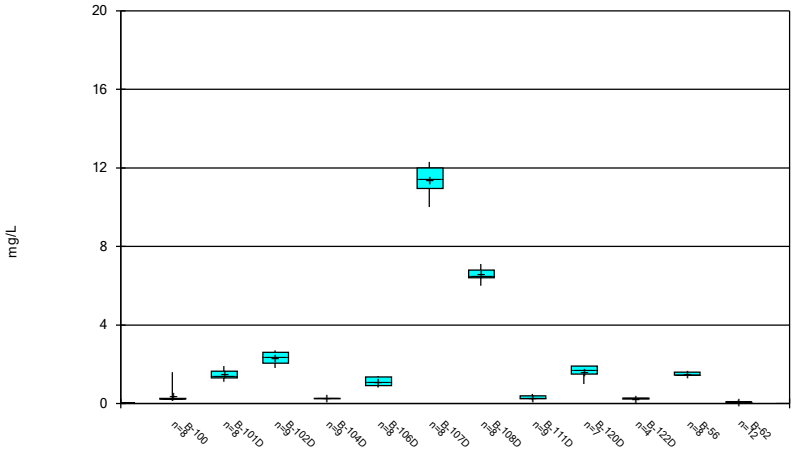
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

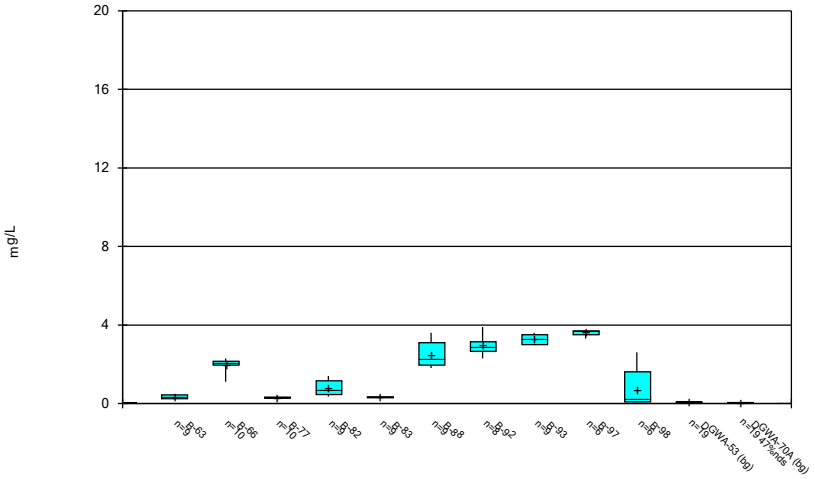
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

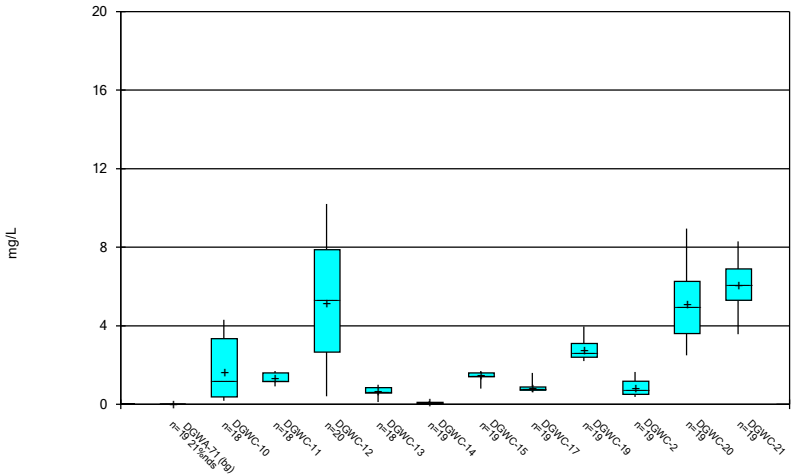
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

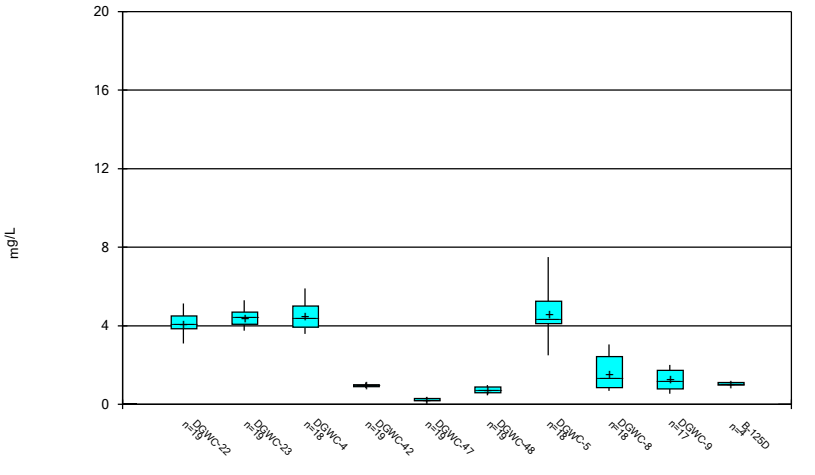
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

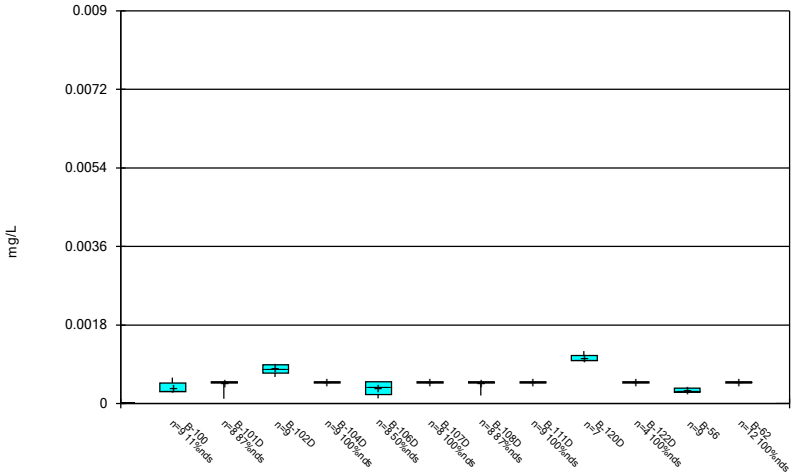
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

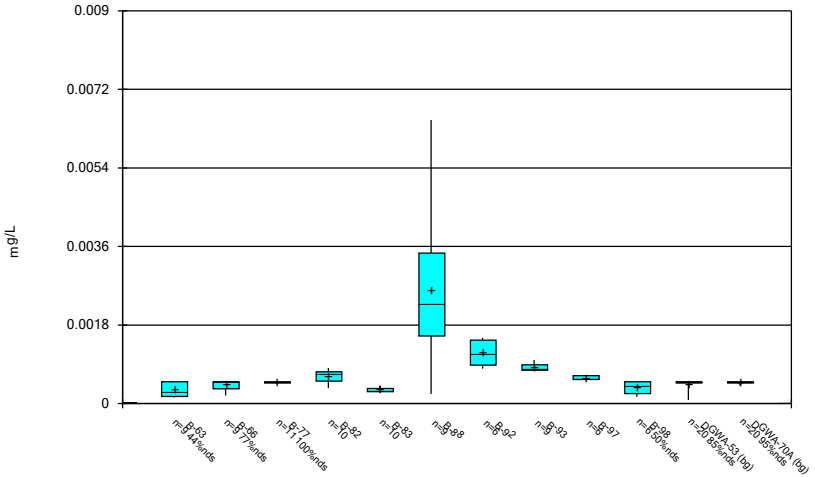
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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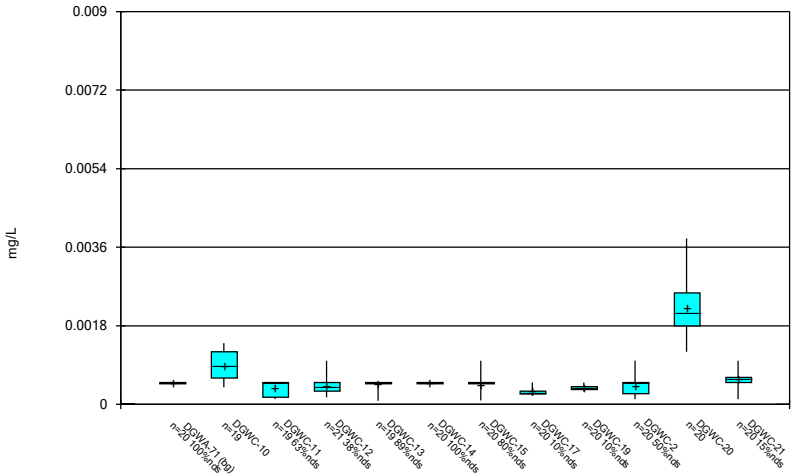
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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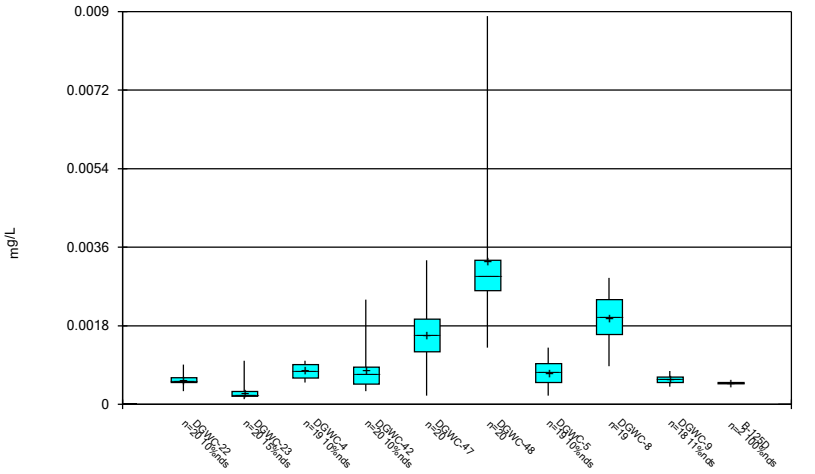
Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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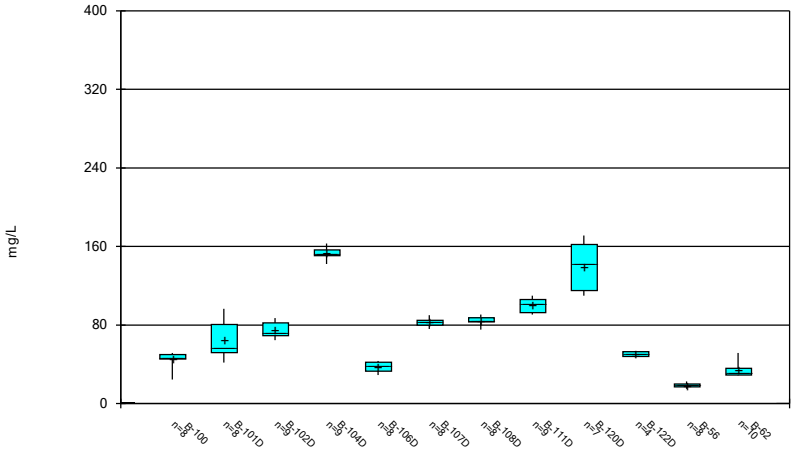
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

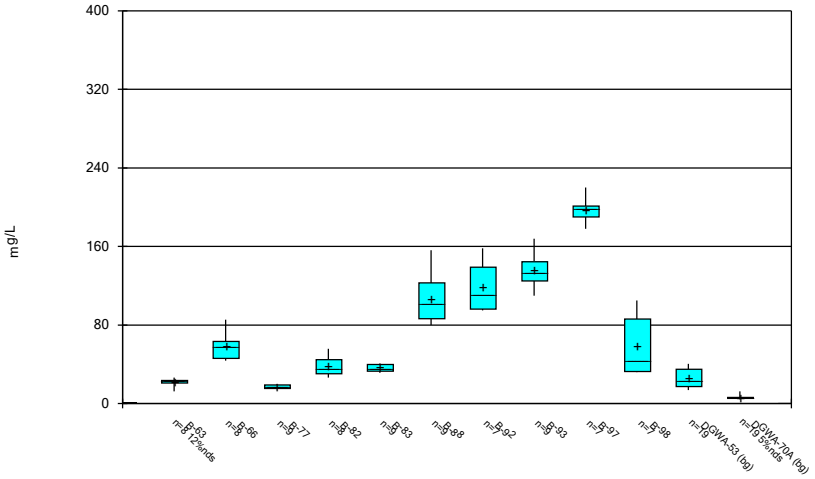
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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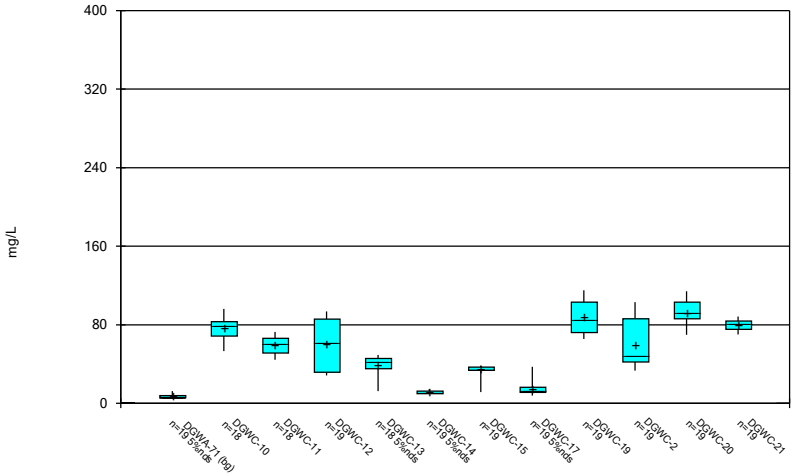
Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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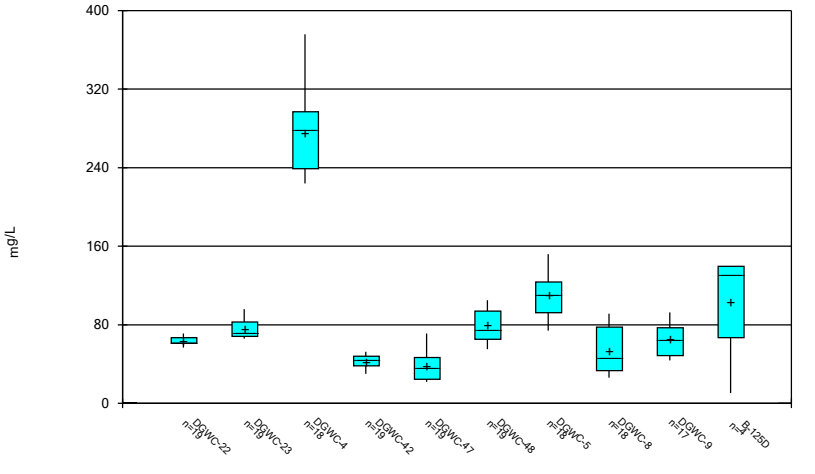
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

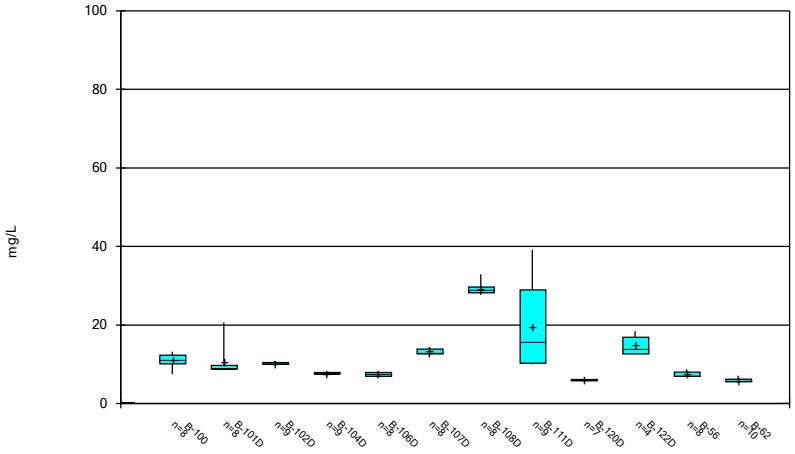
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

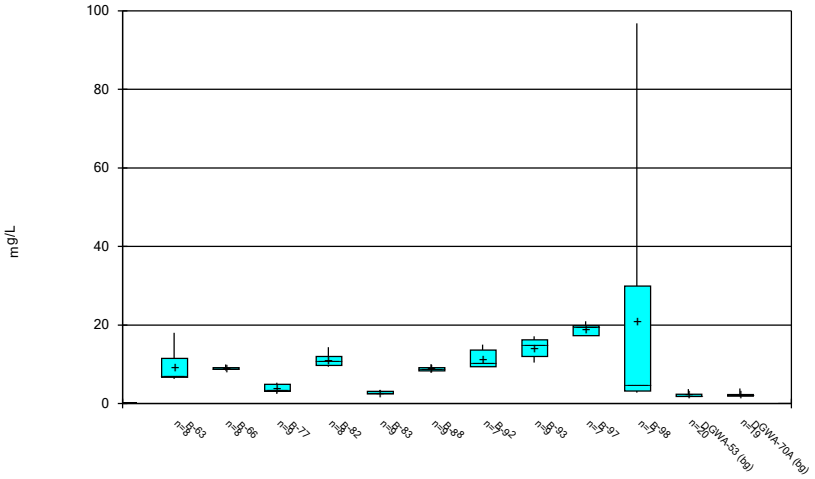
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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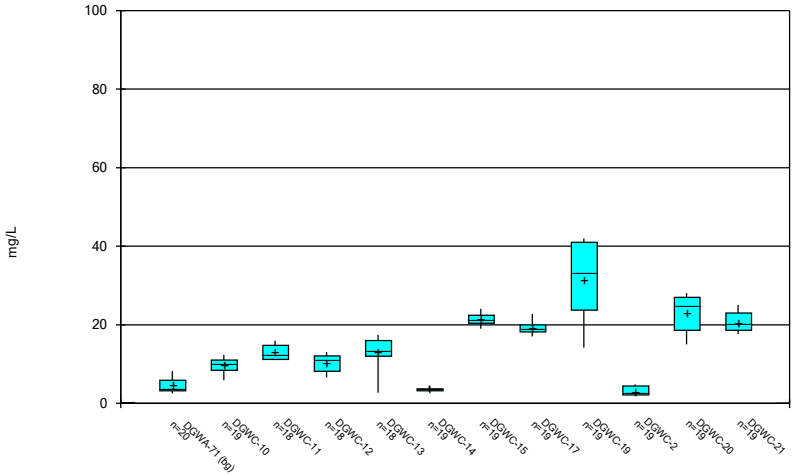
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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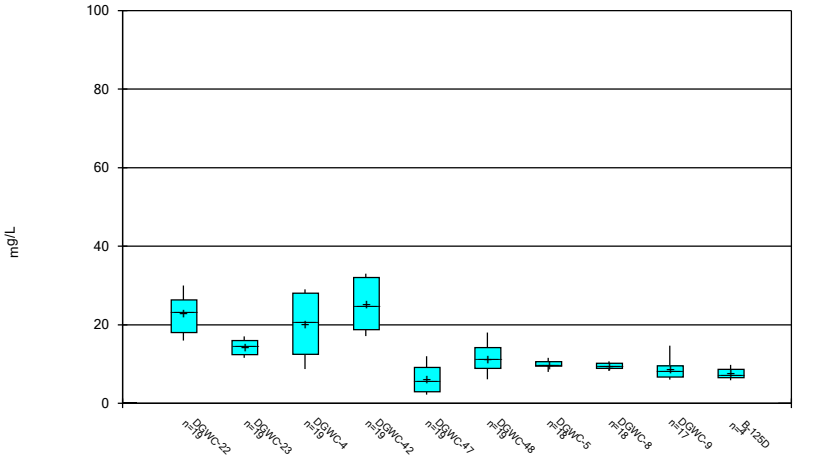
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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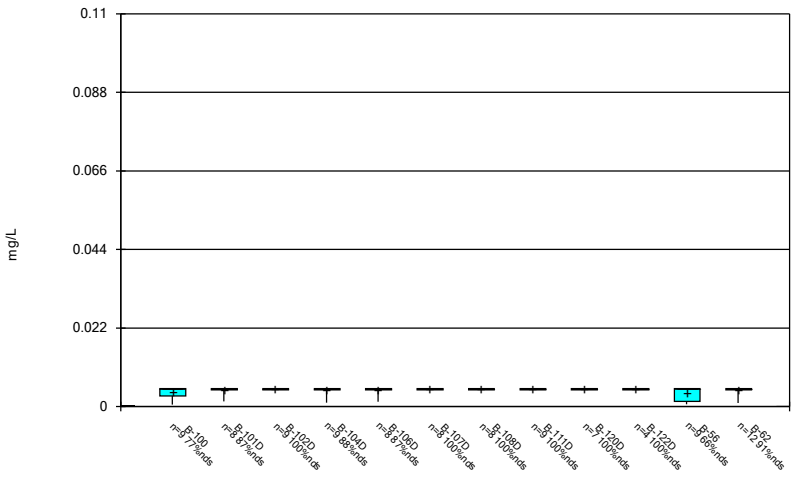
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

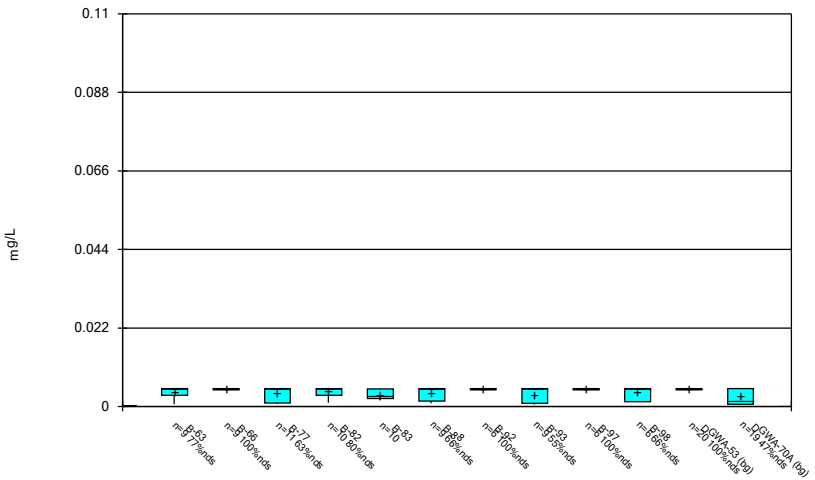
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

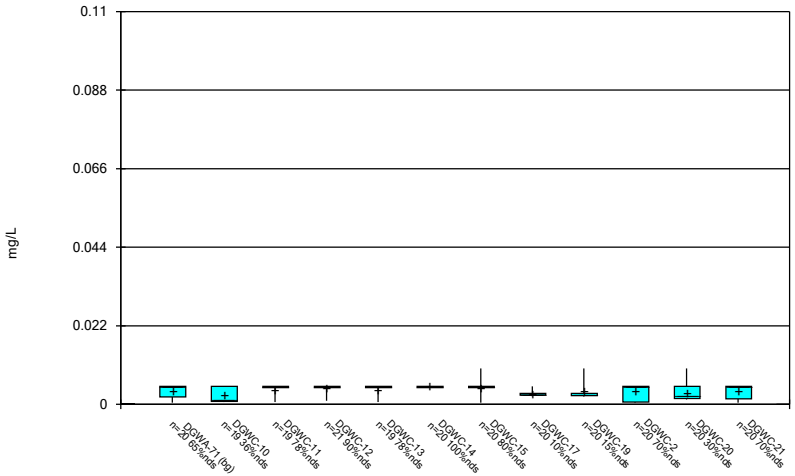
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

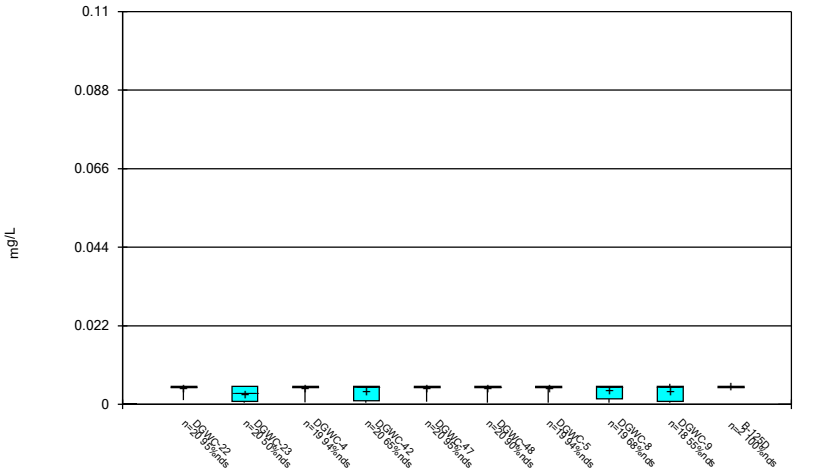
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

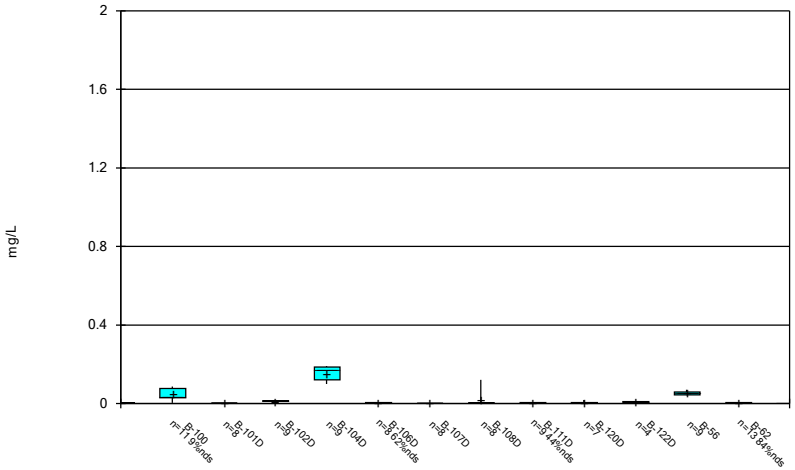
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

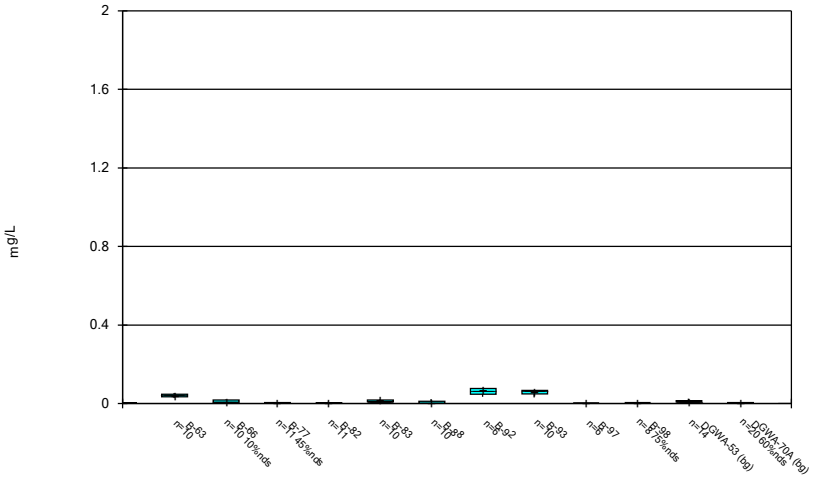
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

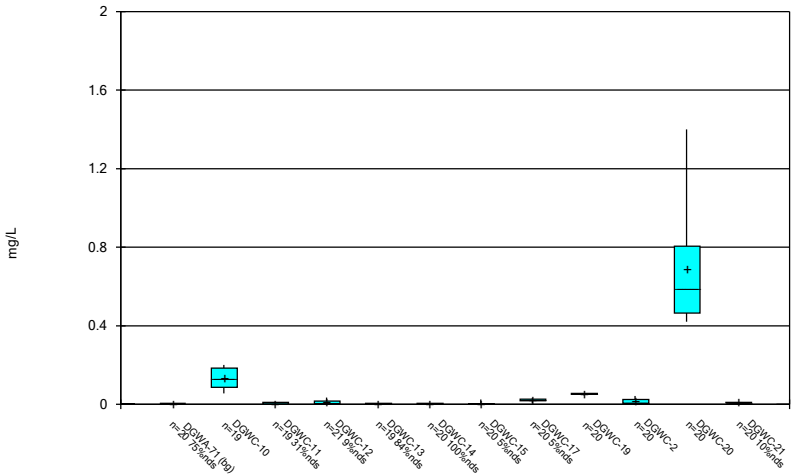
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

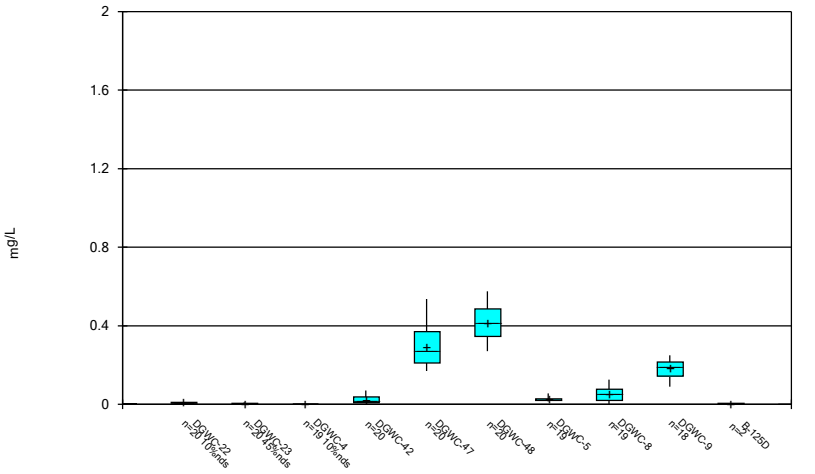
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

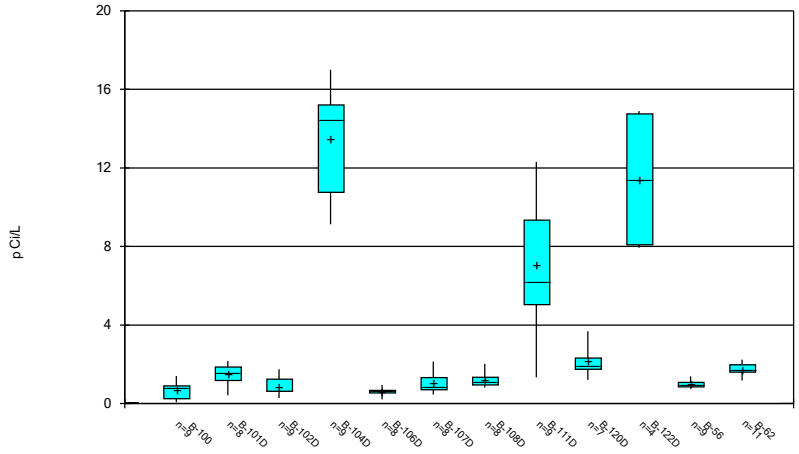
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

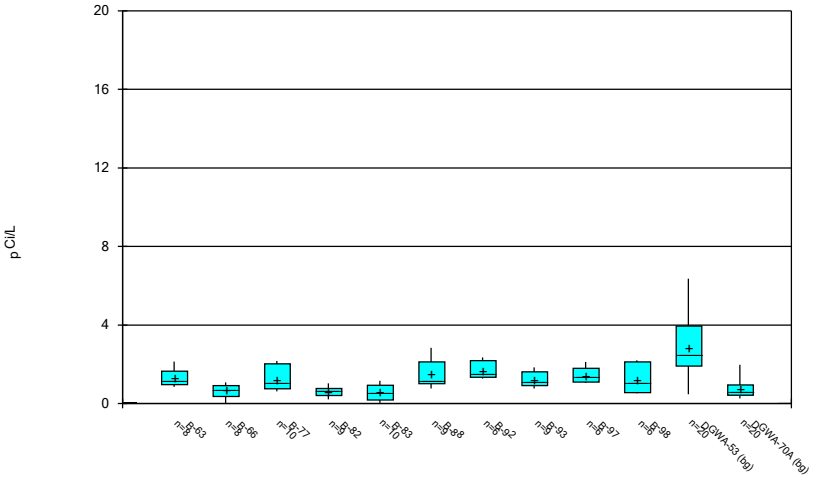
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

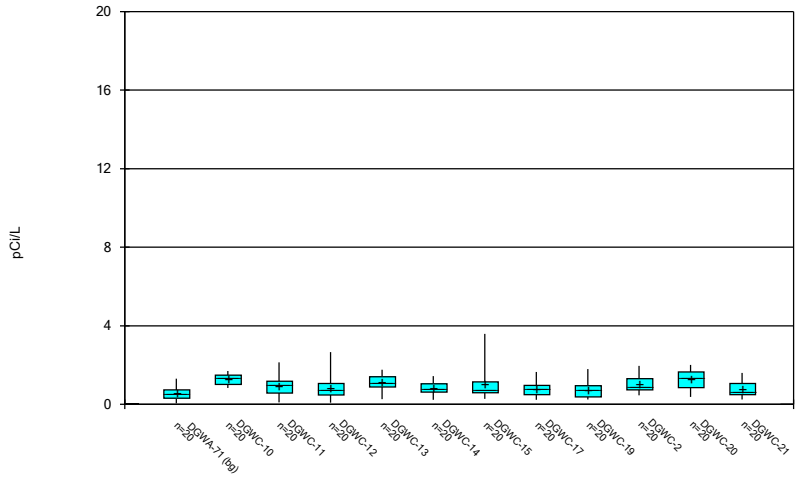
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

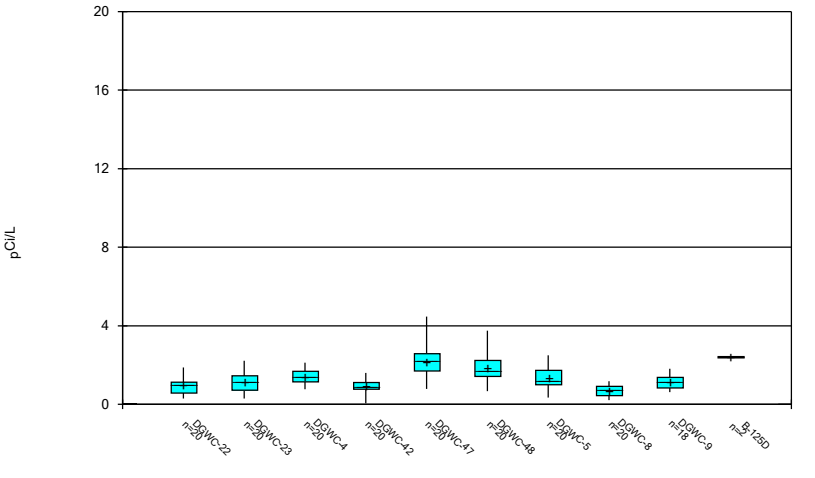
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

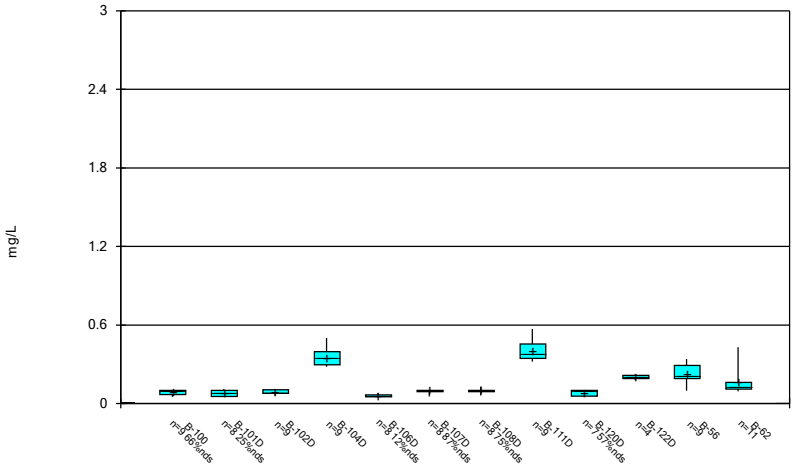
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

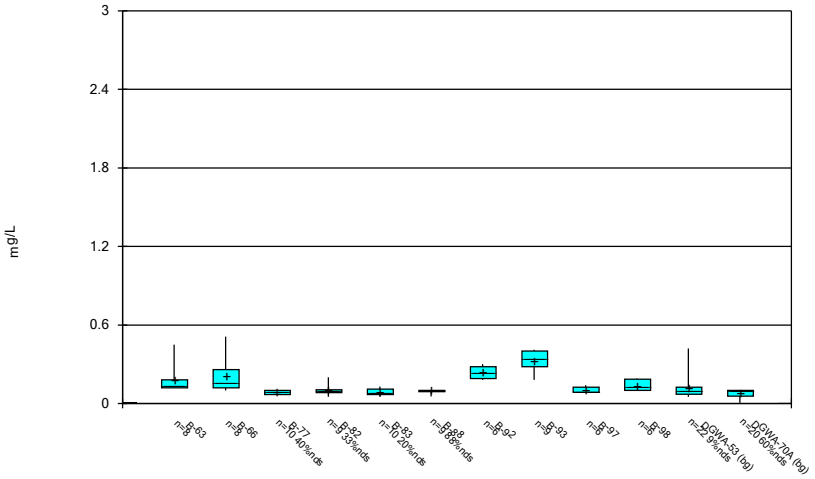
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

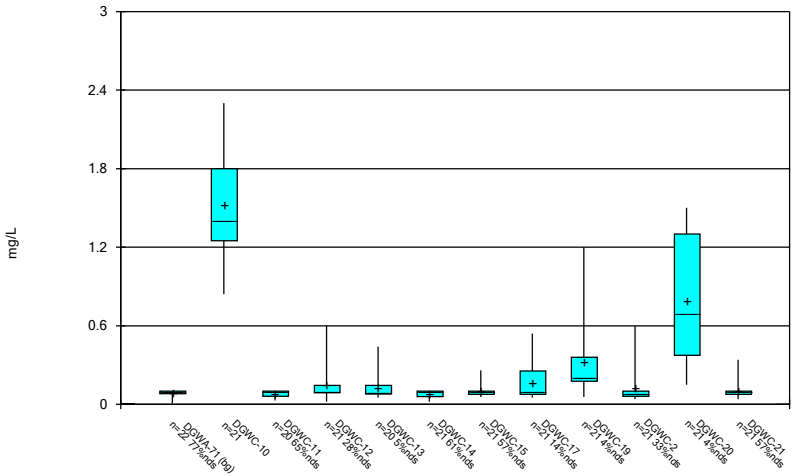
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

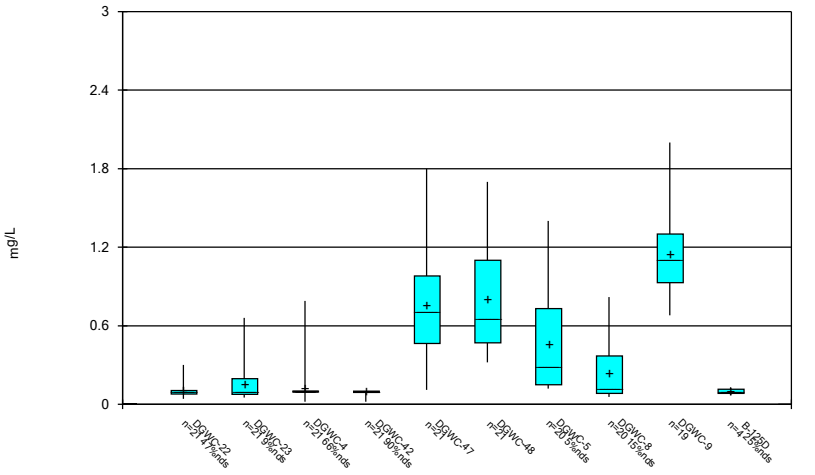
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

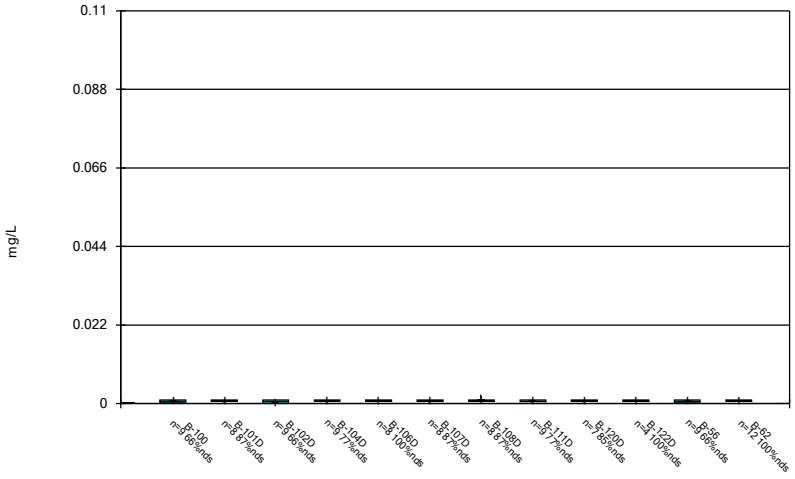
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

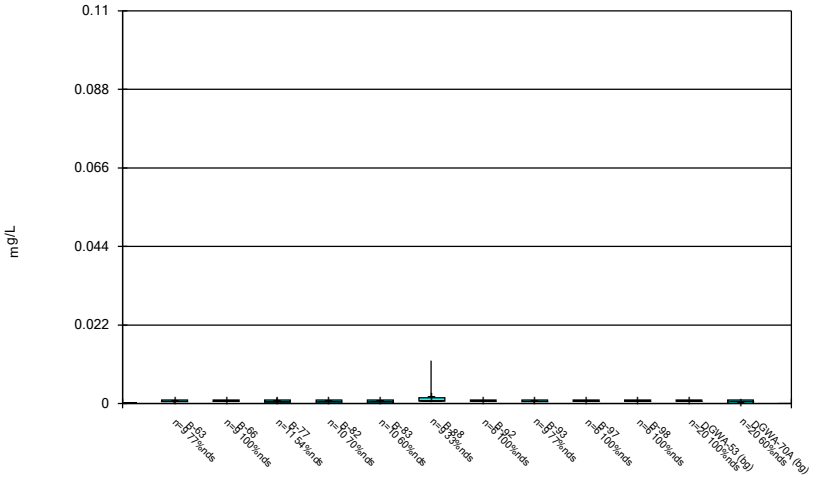
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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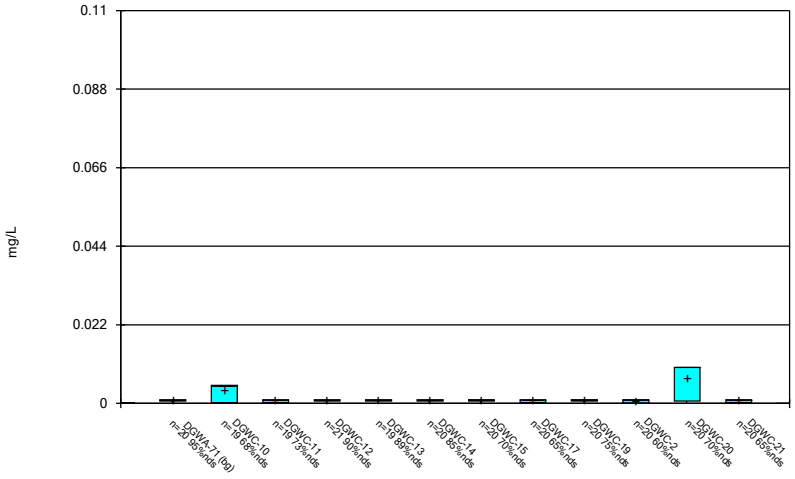
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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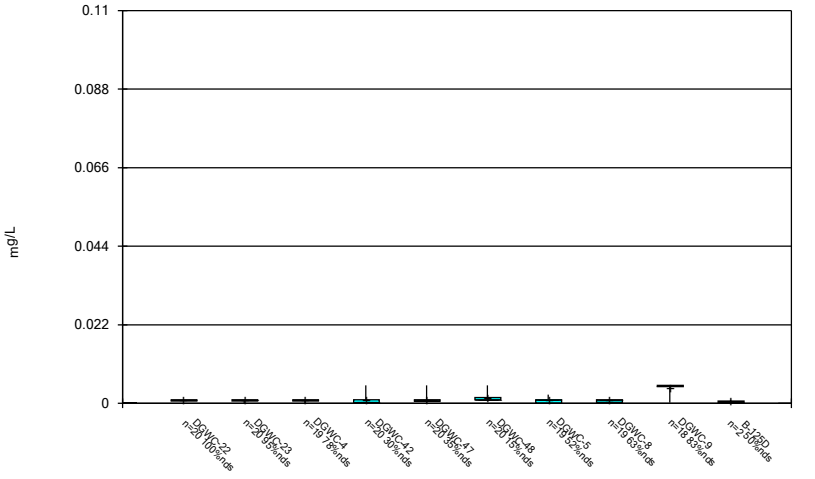
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

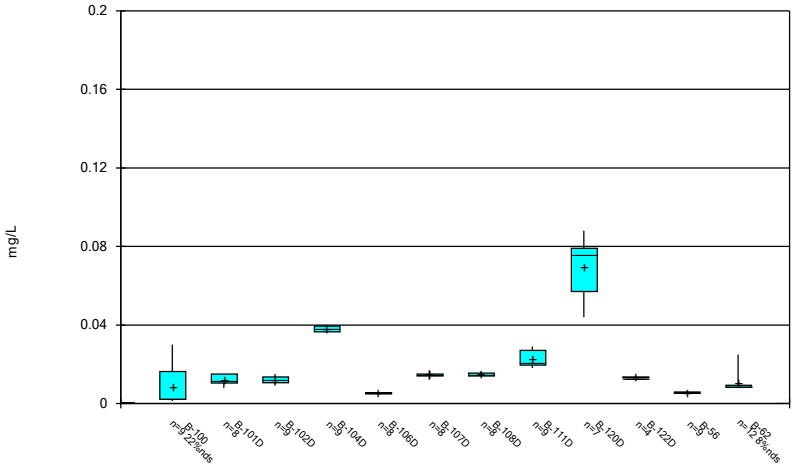
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

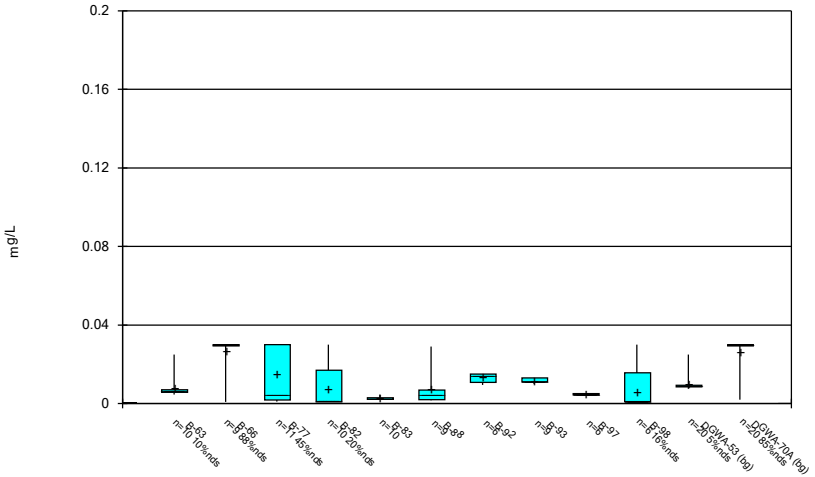
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

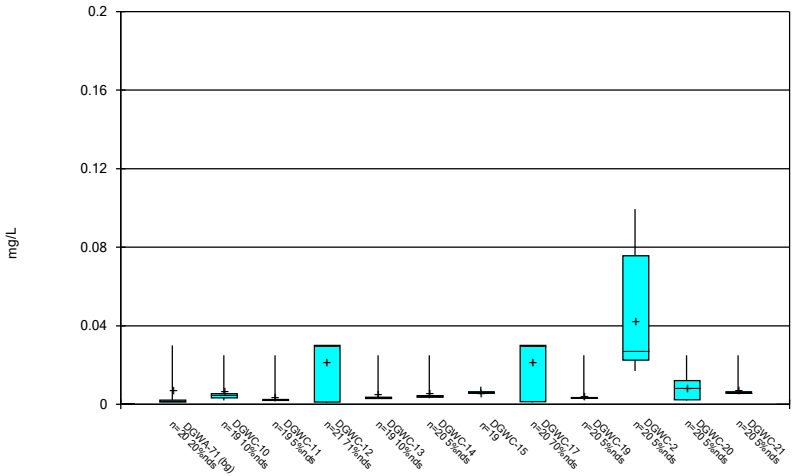
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

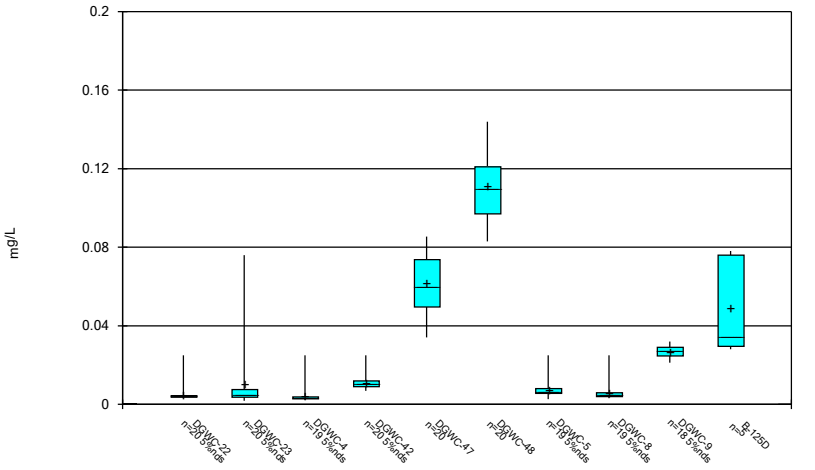
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

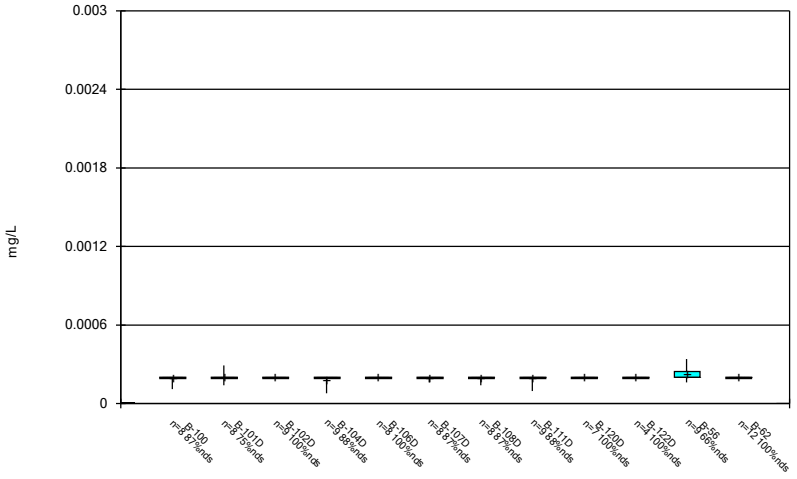
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

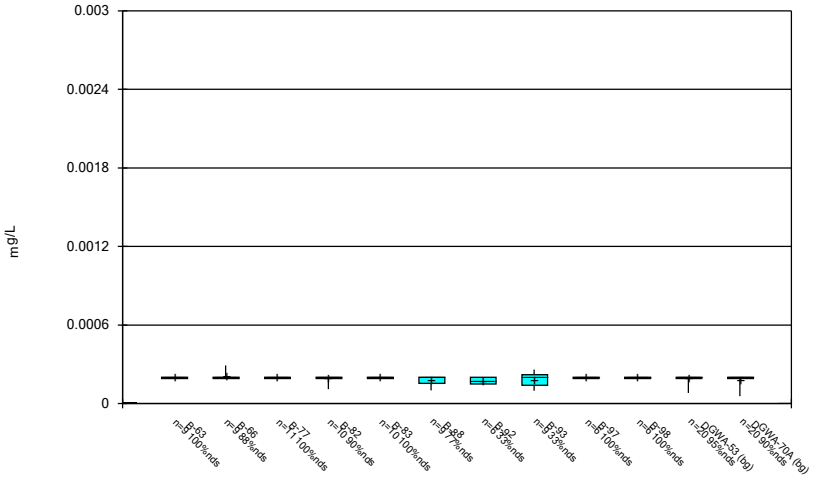
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

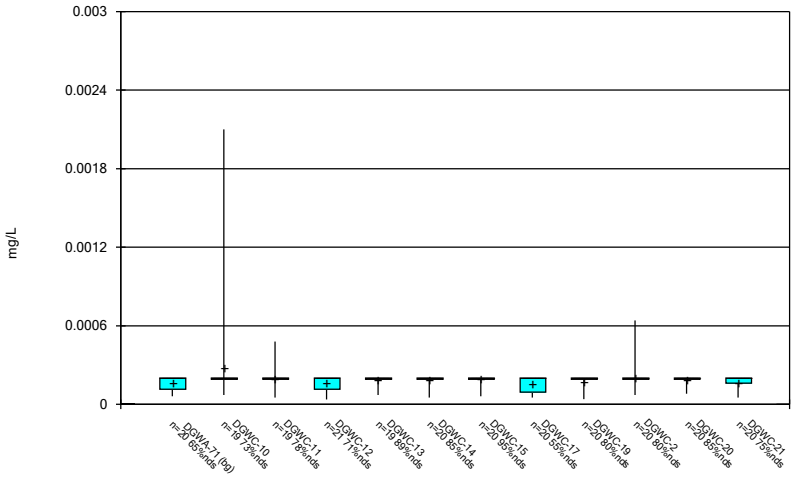
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

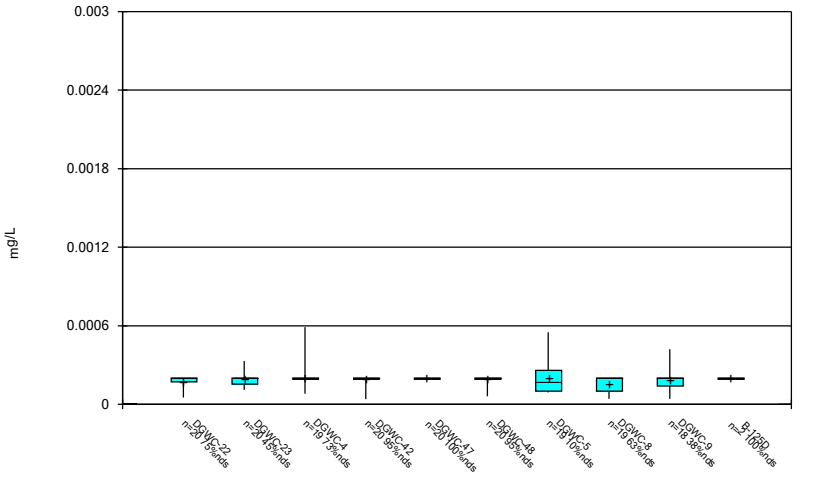
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

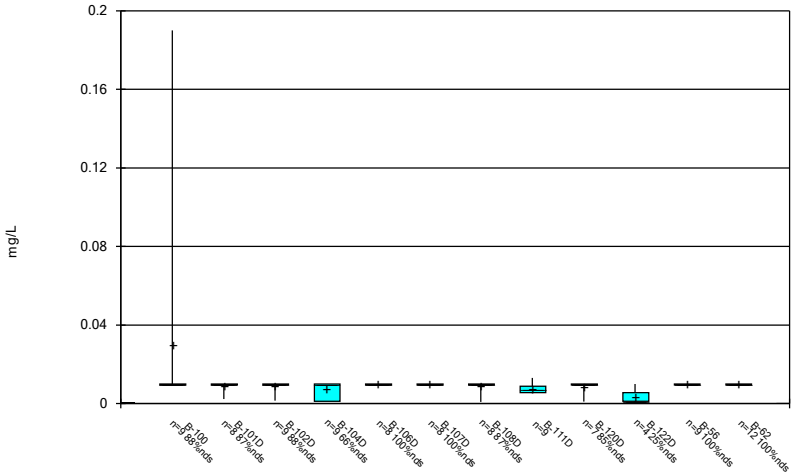
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

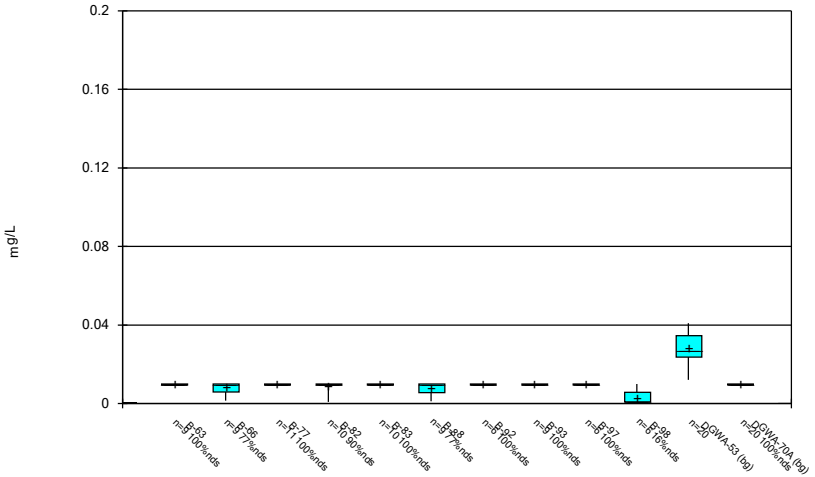
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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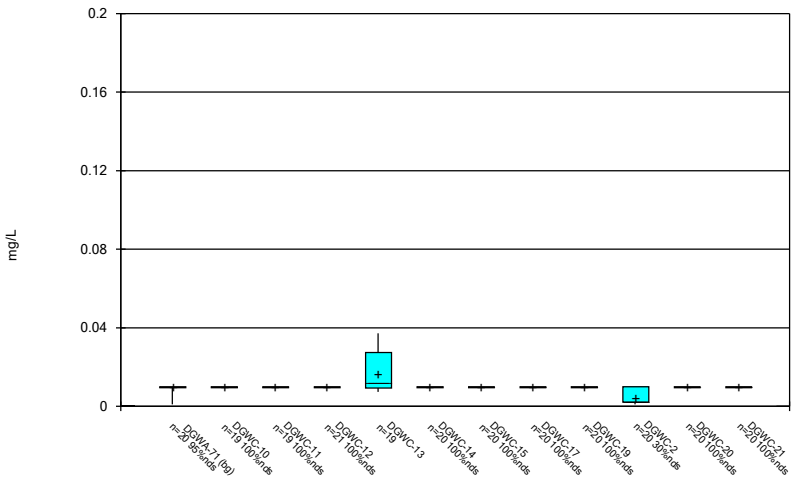
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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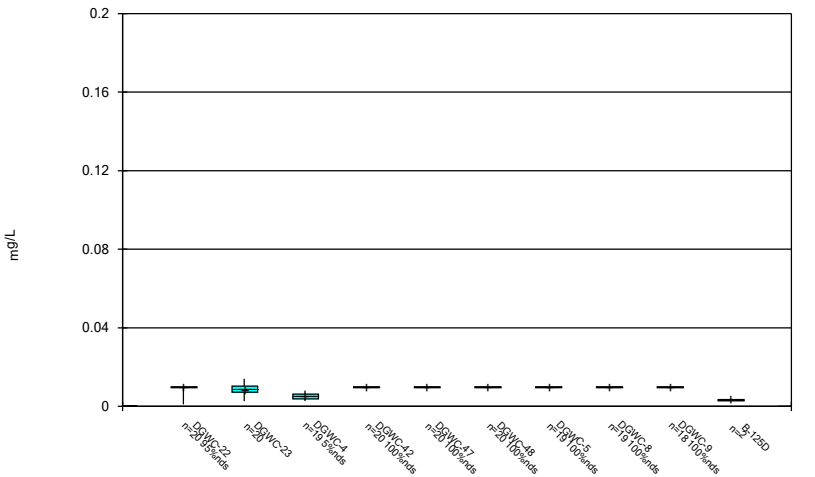
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

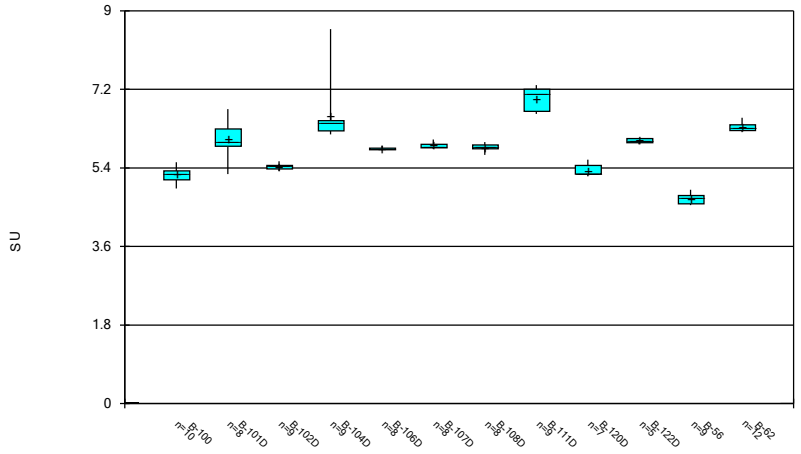
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

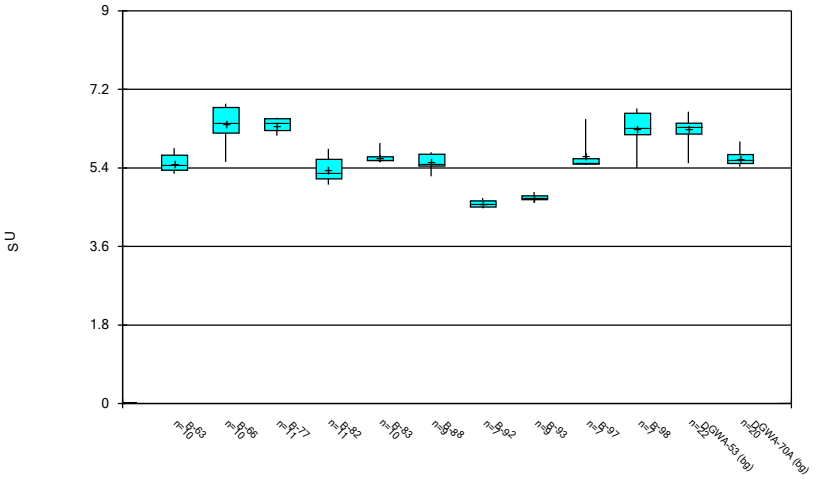
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

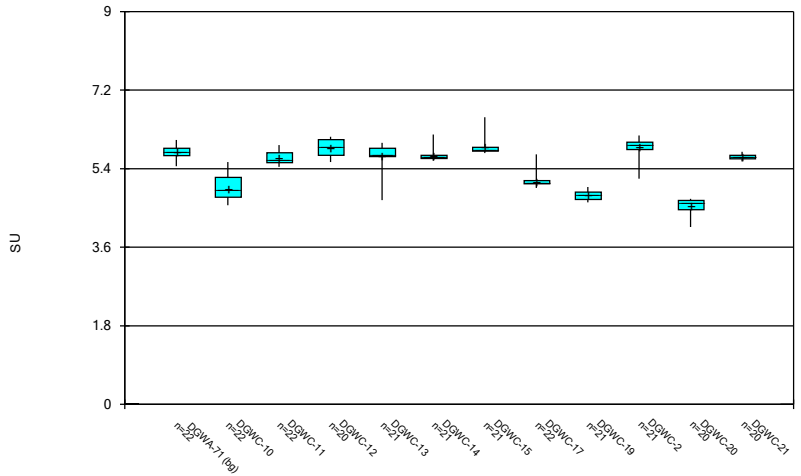
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

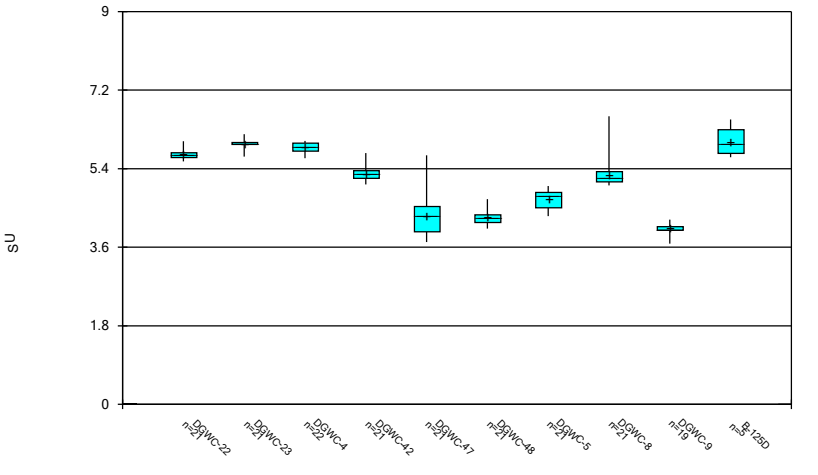
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

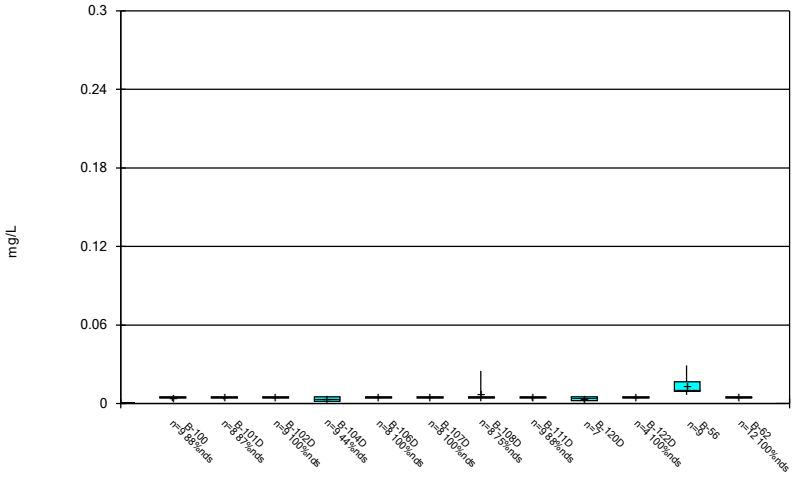
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

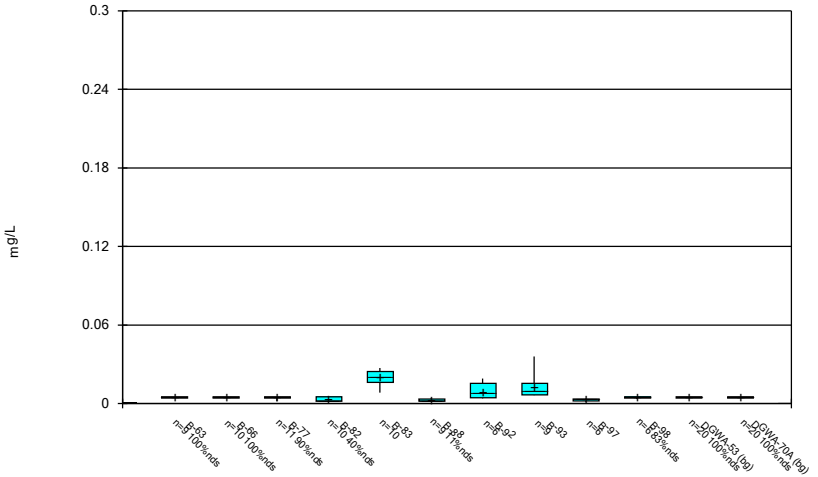
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

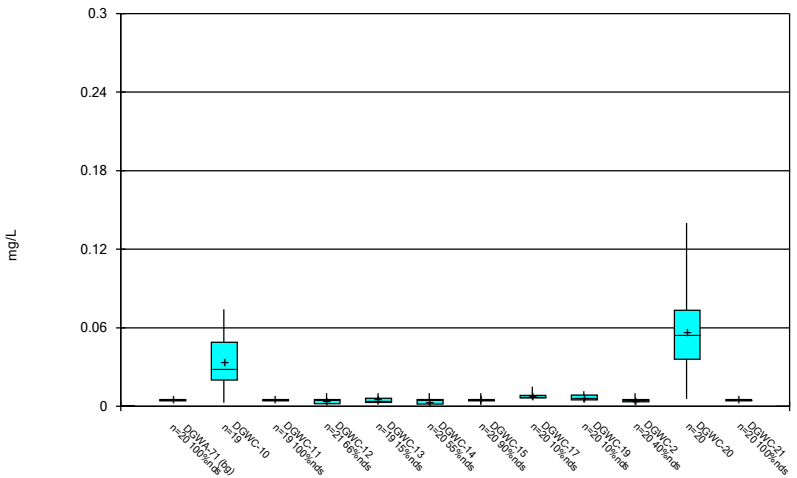
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/3/2024 4:12 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

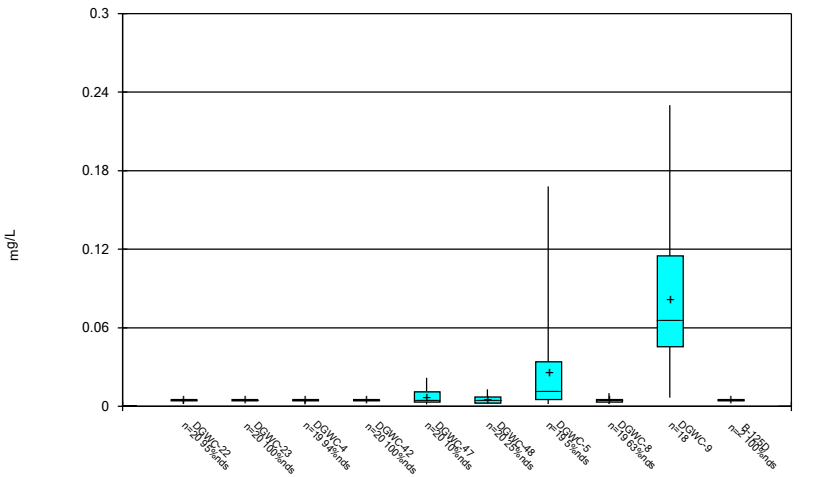
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

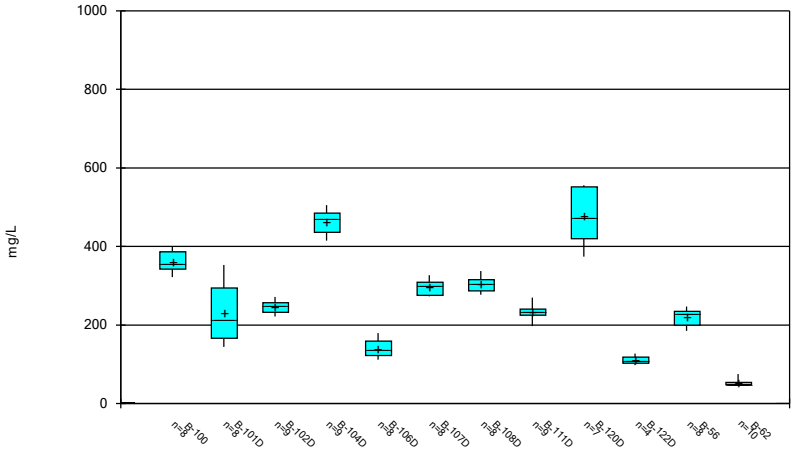
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

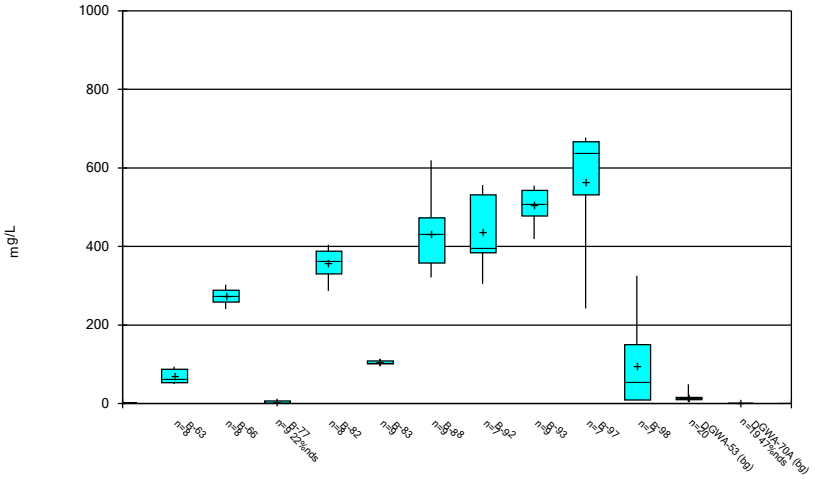
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

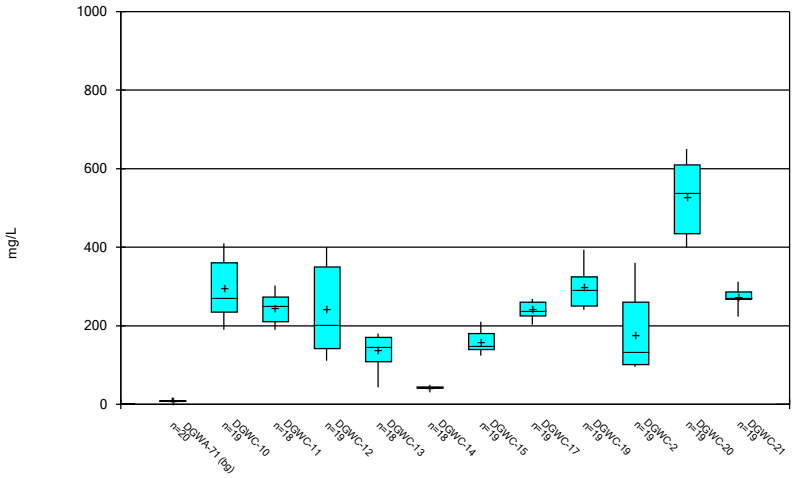
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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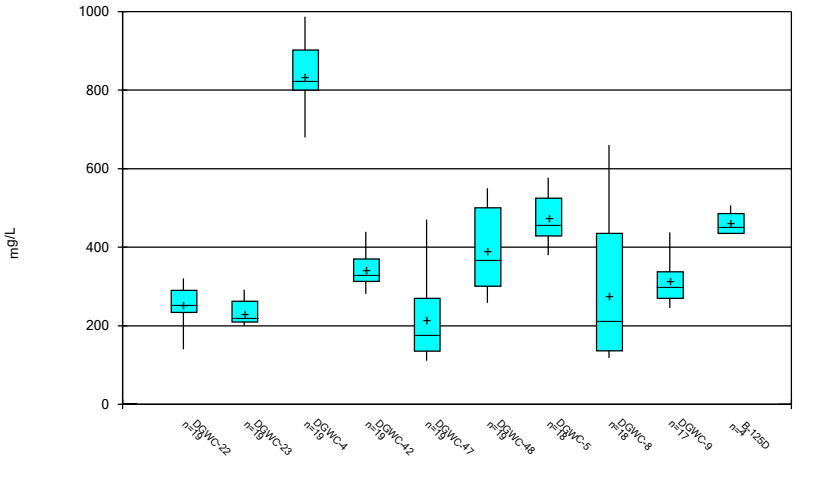
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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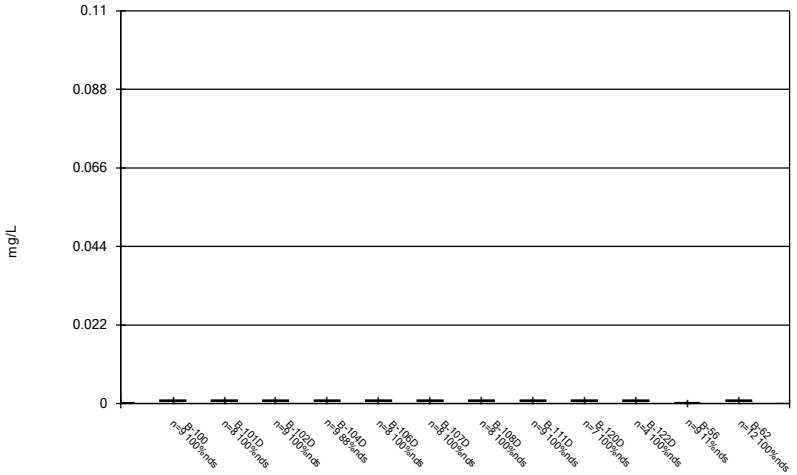
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

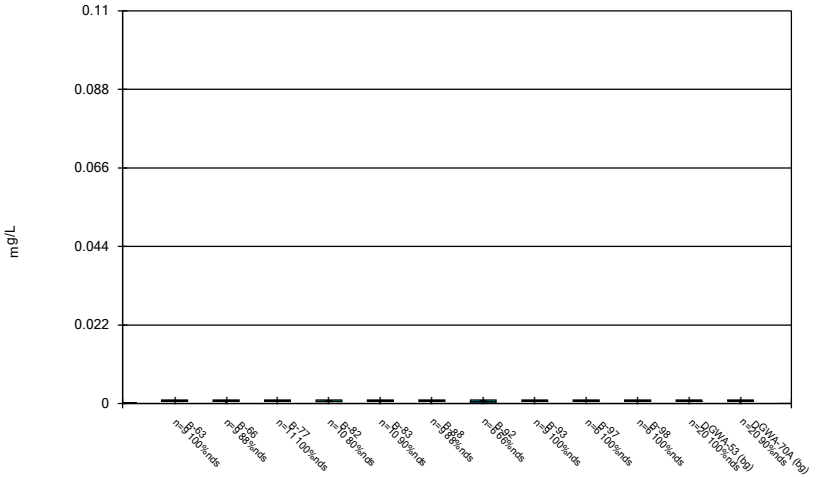
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

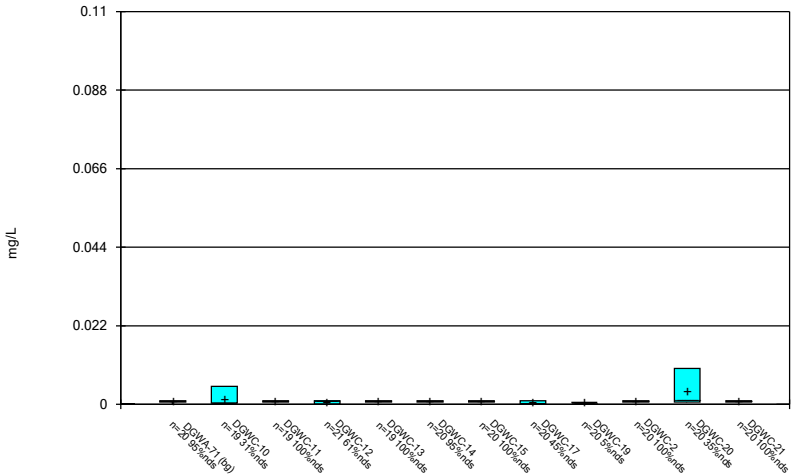
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



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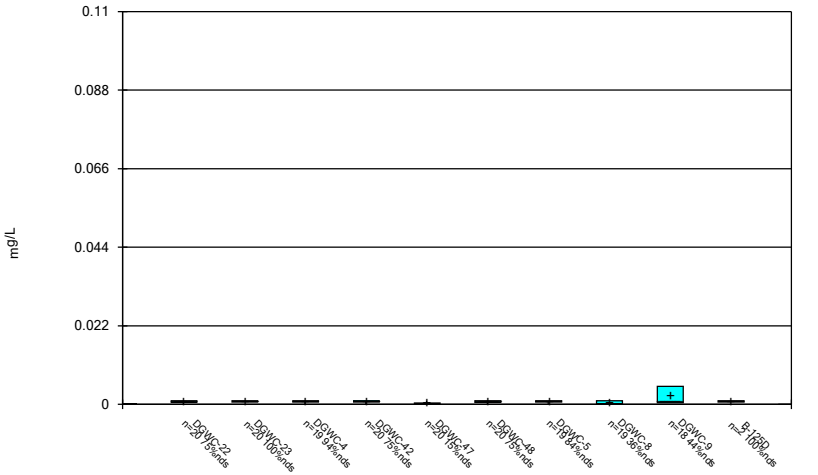
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

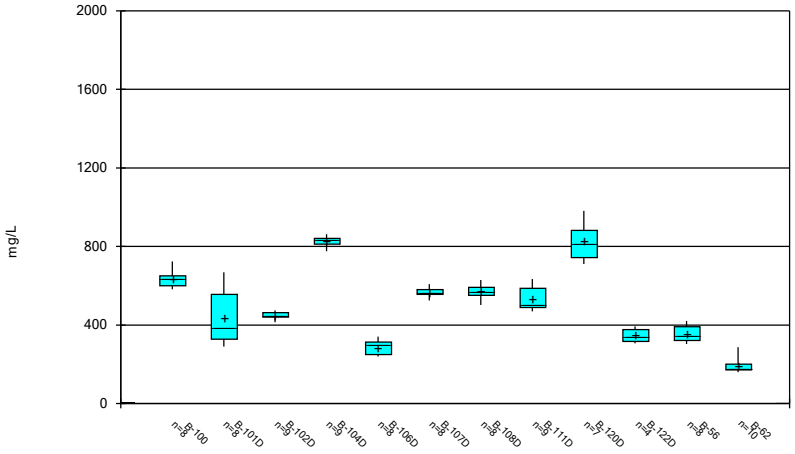
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

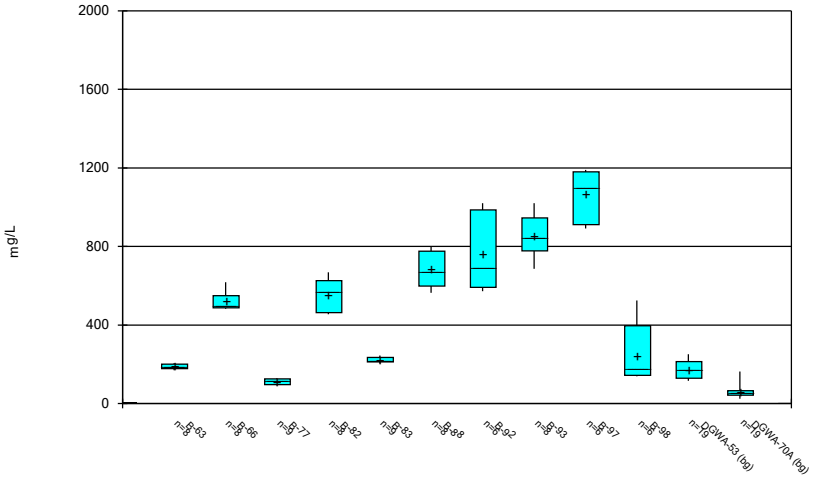
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

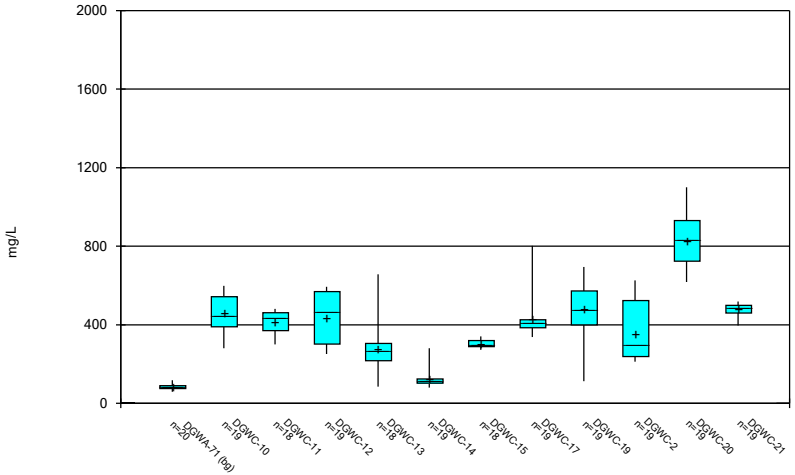
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

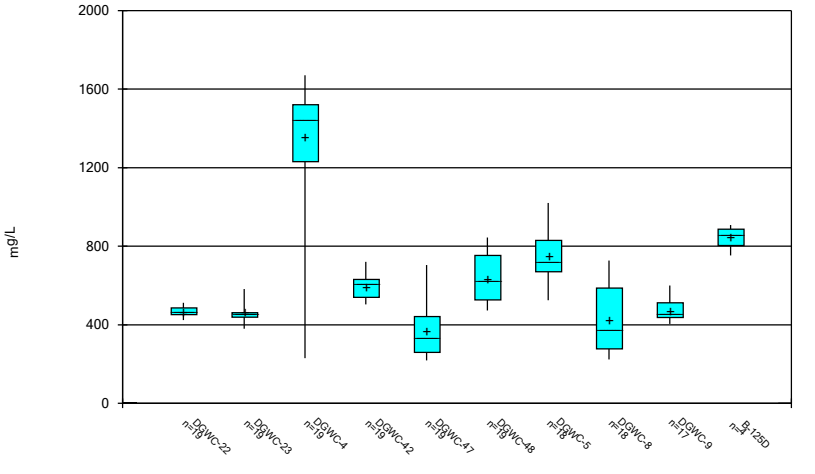
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:13 PM View: AP 234
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:13 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 3/8/2024, 12:50 PM

	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 [TDS] (mg/L)	DGWC-15 Total Dissolved Solids [TDS] (mg/L)
8/31/2016	0.0266 (O)							
12/7/2016		20 (O)						
3/28/2017			1.2 (O)					
3/29/2017					81 (O)			
7/12/2017							490 (O)	
10/24/2017						671 (O)		
11/7/2018				<0.05 (O)				
10/15/2019			0.034 (O)					

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	DGWC-10	0.13	n/a	2/2/2024	0.17	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-11	0.13	n/a	2/1/2024	1.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-12	0.13	n/a	2/2/2024	0.41	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-13	0.13	n/a	1/31/2024	0.63	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-15	0.13	n/a	2/5/2024	1.6	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-17	0.13	n/a	2/6/2024	0.93	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-19	0.13	n/a	2/1/2024	2.4	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-2	0.13	n/a	2/1/2024	0.37	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-20	0.13	n/a	2/1/2024	2.7	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-21	0.13	n/a	1/31/2024	6.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-22	0.13	n/a	1/31/2024	4.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-23	0.13	n/a	1/31/2024	5.3	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-4	0.13	n/a	2/1/2024	4.3	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-42	0.13	n/a	1/30/2024	1.1	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-48	0.13	n/a	2/5/2024	0.46	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-5	0.13	n/a	2/1/2024	2.5	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	DGWC-8	0.13	n/a	2/1/2024	0.69	Yes	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-10	40.3	n/a	2/2/2024	79.3	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-11	40.3	n/a	2/1/2024	55.1	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-19	40.3	n/a	2/1/2024	113	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-20	40.3	n/a	2/1/2024	112	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-21	40.3	n/a	1/31/2024	85.3	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-22	40.3	n/a	1/31/2024	57.1	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-23	40.3	n/a	1/31/2024	95.7	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-4	40.3	n/a	2/1/2024	268	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-48	40.3	n/a	2/5/2024	61.7	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-5	40.3	n/a	2/1/2024	146	Yes	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-10	8.2	n/a	2/2/2024	9.2	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-11	8.2	n/a	2/1/2024	11.1	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-13	8.2	n/a	1/31/2024	11.1	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-15	8.2	n/a	2/5/2024	20.4	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-17	8.2	n/a	2/6/2024	18	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-19	8.2	n/a	2/1/2024	14.2	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-20	8.2	n/a	2/1/2024	27.2	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-21	8.2	n/a	1/31/2024	17.8	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-22	8.2	n/a	1/31/2024	16	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-23	8.2	n/a	1/31/2024	12.5	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-4	8.2	n/a	2/1/2024	8.7	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-42	8.2	n/a	1/30/2024	18.1	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-5	8.2	n/a	2/1/2024	11.6	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-8	8.2	n/a	2/1/2024	10.5	Yes	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-10	0.42	n/a	2/2/2024	1.2	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-20	0.42	n/a	2/1/2024	1.4	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-47	0.42	n/a	2/5/2024	0.53	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-48	0.42	n/a	2/5/2024	0.43	Yes	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-10	6.69	5.43	2/2/2024	4.72	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-17	6.69	5.43	2/6/2024	5.07	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-19	6.69	5.43	2/1/2024	4.98	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-20	6.69	5.43	2/1/2024	4.49	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-42	6.69	5.43	1/30/2024	5.18	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-47	6.69	5.43	2/5/2024	4.11	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-48	6.69	5.43	2/5/2024	4.33	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-5	6.69	5.43	2/1/2024	4.78	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-8	6.69	5.43	2/1/2024	5.21	Yes	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-10	49	n/a	2/2/2024	336	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-11	49	n/a	2/1/2024	260	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-12	49	n/a	2/2/2024	134	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-13	49	n/a	1/31/2024	100	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-15	49	n/a	2/5/2024	124	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-17	49	n/a	2/6/2024	261	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-19	49	n/a	2/1/2024	394	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-2	49	n/a	2/1/2024	97.6	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-20	49	n/a	2/1/2024	628	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-21	49	n/a	1/31/2024	267	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-22	49	n/a	1/31/2024	224	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-23	49	n/a	1/31/2024	279	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-4	49	n/a	2/1/2024	824	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-42	49	n/a	1/30/2024	294	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	DGWC-47	49	n/a	2/5/2024	118	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-48	49	n/a	2/5/2024	258	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-5	49	n/a	2/1/2024	539	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	DGWC-8	49	n/a	2/1/2024	138	Yes	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	254.9	n/a	2/2/2024	548	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	254.9	n/a	2/1/2024	463	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	254.9	n/a	2/2/2024	274	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	254.9	n/a	2/5/2024	288	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	254.9	n/a	2/6/2024	477	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	254.9	n/a	2/1/2024	656	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	254.9	n/a	2/1/2024	1050	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	254.9	n/a	1/31/2024	503	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	254.9	n/a	1/31/2024	423	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	254.9	n/a	1/31/2024	564	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	254.9	n/a	2/1/2024	1450	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	254.9	n/a	1/30/2024	551	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	254.9	n/a	2/5/2024	496	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	254.9	n/a	2/1/2024	948	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	254.9	n/a	2/1/2024	272	Yes	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**DGWC-10**	**0.13**	**n/a**	**2/2/2024**	**0.17**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-11**	**0.13**	**n/a**	**2/1/2024**	**1.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-12**	**0.13**	**n/a**	**2/2/2024**	**0.41**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-13**	**0.13**	**n/a**	**1/31/2024**	**0.63**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-14	0.13	n/a	2/5/2024	0.13	No	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-15**	**0.13**	**n/a**	**2/5/2024**	**1.6**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-17**	**0.13**	**n/a**	**2/6/2024**	**0.93**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-19**	**0.13**	**n/a**	**2/1/2024**	**2.4**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-2**	**0.13**	**n/a**	**2/1/2024**	**0.37**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-20**	**0.13**	**n/a**	**2/1/2024**	**2.7**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-21**	**0.13**	**n/a**	**1/31/2024**	**6.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-22**	**0.13**	**n/a**	**1/31/2024**	**4.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-23**	**0.13**	**n/a**	**1/31/2024**	**5.3**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-4**	**0.13**	**n/a**	**2/1/2024**	**4.3**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-42**	**0.13**	**n/a**	**1/30/2024**	**1.1**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	DGWC-47	0.13	n/a	2/5/2024	0.13	No	57	n/a	n/a	22.81	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Boron (mg/L)	**DGWC-48**	**0.13**	**n/a**	**2/5/2024**	**0.46**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-5**	**0.13**	**n/a**	**2/1/2024**	**2.5**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**DGWC-8**	**0.13**	**n/a**	**2/1/2024**	**0.69**	**Yes**	**57**	**n/a**	**n/a**	**22.81**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-10**	**40.3**	**n/a**	**2/2/2024**	**79.3**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-11**	**40.3**	**n/a**	**2/1/2024**	**55.1**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-12	40.3	n/a	2/2/2024	31.7	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-13	40.3	n/a	1/31/2024	30.8	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-14	40.3	n/a	2/5/2024	12.7	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-15	40.3	n/a	2/5/2024	32.8	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-17	40.3	n/a	2/6/2024	19.7	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-19**	**40.3**	**n/a**	**2/1/2024**	**113**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-2	40.3	n/a	2/1/2024	33.3	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-20**	**40.3**	**n/a**	**2/1/2024**	**112**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-21**	**40.3**	**n/a**	**1/31/2024**	**85.3**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-22**	**40.3**	**n/a**	**1/31/2024**	**57.1**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-23**	**40.3**	**n/a**	**1/31/2024**	**95.7**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-4**	**40.3**	**n/a**	**2/1/2024**	**268**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-42	40.3	n/a	1/30/2024	29.9	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	DGWC-47	40.3	n/a	2/5/2024	23.9	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Calcium (mg/L)	**DGWC-48**	**40.3**	**n/a**	**2/5/2024**	**61.7**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**DGWC-5**	**40.3**	**n/a**	**2/1/2024**	**146**	**Yes**	**57**	**n/a**	**n/a**	**3.509**	**n/a**	**n/a**	**0.0005663**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	DGWC-8	40.3	n/a	2/1/2024	30.6	No	57	n/a	n/a	3.509	n/a	n/a	0.0005663	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-10**	**8.2**	**n/a**	**2/2/2024**	**9.2**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-11**	**8.2**	**n/a**	**2/1/2024**	**11.1**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-12	8.2	n/a	2/2/2024	6.9	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-13**	**8.2**	**n/a**	**1/31/2024**	**11.1**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-14	8.2	n/a	2/5/2024	3.7	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-15**	**8.2**	**n/a**	**2/5/2024**	**20.4**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-17**	**8.2**	**n/a**	**2/6/2024**	**18**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-19**	**8.2**	**n/a**	**2/1/2024**	**14.2**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-2	8.2	n/a	2/1/2024	1.9	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-20**	**8.2**	**n/a**	**2/1/2024**	**27.2**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-21**	**8.2**	**n/a**	**1/31/2024**	**17.8**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-22**	**8.2**	**n/a**	**1/31/2024**	**16**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-23**	**8.2**	**n/a**	**1/31/2024**	**12.5**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-4**	**8.2**	**n/a**	**2/1/2024**	**8.7**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-42**	**8.2**	**n/a**	**1/30/2024**	**18.1**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	DGWC-47	8.2	n/a	2/5/2024	2.2	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	DGWC-48	8.2	n/a	2/5/2024	6.1	No	59	n/a	n/a	0	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Chloride (mg/L)	**DGWC-5**	**8.2**	**n/a**	**2/1/2024**	**11.6**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**DGWC-8**	**8.2**	**n/a**	**2/1/2024**	**10.5**	**Yes**	**59**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-10**	**0.42**	**n/a**	**2/2/2024**	**1.2**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-11	0.42	n/a	2/1/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-12	0.42	n/a	2/2/2024	0.12	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-13	0.42	n/a	1/31/2024	0.079J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-14	0.42	n/a	2/5/2024	0.054J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-15	0.42	n/a	2/5/2024	0.065J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-17	0.42	n/a	2/6/2024	0.1	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-19	0.42	n/a	2/1/2024	0.19	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-2	0.42	n/a	2/1/2024	0.067J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-20**	**0.42**	**n/a**	**2/1/2024**	**1.4**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-21	0.42	n/a	1/31/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:20 PM

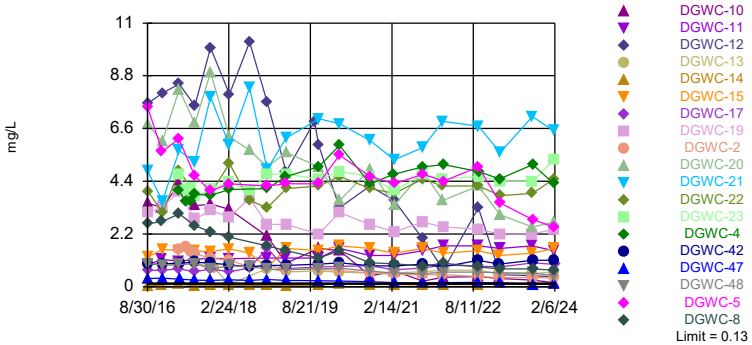
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	DGWC-22	0.42	n/a	1/31/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-23	0.42	n/a	1/31/2024	0.074J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-4	0.42	n/a	2/1/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-42	0.42	n/a	1/30/2024	0.1ND	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**DGWC-47**	**0.42**	**n/a**	**2/5/2024**	**0.53**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	**DGWC-48**	**0.42**	**n/a**	**2/5/2024**	**0.43**	**Yes**	**64**	**n/a**	**n/a**	**48.44**	**n/a**	**n/a**	**0.0004544**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	DGWC-5	0.42	n/a	2/1/2024	0.12	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
Fluoride (mg/L)	DGWC-8	0.42	n/a	2/1/2024	0.064J	No	64	n/a	n/a	48.44	n/a	n/a	0.0004544	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-10**	**6.69**	**5.43**	**2/2/2024**	**4.72**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-11	6.69	5.43	2/1/2024	5.49	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-12	6.69	5.43	2/2/2024	6.06	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-13	6.69	5.43	1/31/2024	5.74	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-14	6.69	5.43	2/5/2024	5.69	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-15	6.69	5.43	2/5/2024	5.86	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-17**	**6.69**	**5.43**	**2/6/2024**	**5.07**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-19**	**6.69**	**5.43**	**2/1/2024**	**4.98**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-2	6.69	5.43	2/1/2024	6.02	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-20**	**6.69**	**5.43**	**2/1/2024**	**4.49**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	DGWC-21	6.69	5.43	1/31/2024	5.67	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-22	6.69	5.43	1/31/2024	5.71	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-23	6.69	5.43	1/31/2024	5.95	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	DGWC-4	6.69	5.43	2/1/2024	5.67	No	64	n/a	n/a	0	n/a	n/a	0.0009088	NP Inter (normality) 1 of 2
pH, Field (SU)	**DGWC-42**	**6.69**	**5.43**	**1/30/2024**	**5.18**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-47**	**6.69**	**5.43**	**2/5/2024**	**4.11**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-48**	**6.69**	**5.43**	**2/5/2024**	**4.33**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-5**	**6.69**	**5.43**	**2/1/2024**	**4.78**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**DGWC-8**	**6.69**	**5.43**	**2/1/2024**	**5.21**	**Yes**	**64**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0009088**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-10**	**49**	**n/a**	**2/2/2024**	**336**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-11**	**49**	**n/a**	**2/1/2024**	**260**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-12**	**49**	**n/a**	**2/2/2024**	**134**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-13**	**49**	**n/a**	**1/31/2024**	**100**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	DGWC-14	49	n/a	2/5/2024	44	No	59	n/a	n/a	15.25	n/a	n/a	0.0005257	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**DGWC-15**	**49**	**n/a**	**2/5/2024**	**124**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-17**	**49**	**n/a**	**2/6/2024**	**261**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-19**	**49**	**n/a**	**2/1/2024**	**394**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-2**	**49**	**n/a**	**2/1/2024**	**97.6**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-20**	**49**	**n/a**	**2/1/2024**	**628**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-21**	**49**	**n/a**	**1/31/2024**	**267**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-22**	**49**	**n/a**	**1/31/2024**	**224**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-23**	**49**	**n/a**	**1/31/2024**	**279**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-4**	**49**	**n/a**	**2/1/2024**	**824**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-42**	**49**	**n/a**	**1/30/2024**	**294**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-47**	**49**	**n/a**	**2/5/2024**	**118**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-48**	**49**	**n/a**	**2/5/2024**	**258**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-5**	**49**	**n/a**	**2/1/2024**	**539**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**DGWC-8**	**49**	**n/a**	**2/1/2024**	**138**	**Yes**	**59**	**n/a**	**n/a**	**15.25**	**n/a**	**n/a**	**0.0005257**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-10**	**254.9**	**n/a**	**2/2/2024**	**548**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**254.9**	**n/a**	**2/1/2024**	**463**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**254.9**	**n/a**	**2/2/2024**	**274**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-13	254.9	n/a	1/31/2024	216	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	DGWC-14	254.9	n/a	2/5/2024	127	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-15**	**254.9**	**n/a**	**2/5/2024**	**288**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**254.9**	**n/a**	**2/6/2024**	**477**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**254.9**	**n/a**	**2/1/2024**	**656**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-2	254.9	n/a	2/1/2024	220	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-20**	**254.9**	**n/a**	**2/1/2024**	**1050**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-21**	**254.9**	**n/a**	**1/31/2024**	**503**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**254.9**	**n/a**	**1/31/2024**	**423**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-23**	**254.9**	**n/a**	**1/31/2024**	**564**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**254.9**	**n/a**	**2/1/2024**	**1450**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-42**	**254.9**	**n/a**	**1/30/2024**	**551**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	DGWC-47	254.9	n/a	2/5/2024	253	No	58	9.835	2.801	0	None	sqrt(x)	0.0003762	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**254.9**	**n/a**	**2/5/2024**	**496**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**254.9**	**n/a**	**2/1/2024**	**948**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-8**	**254.9**	**n/a**	**2/1/2024**	**272**	**Yes**	**58**	**9.835**	**2.801**	**0**	**None**	**sqrt(x)**	**0.0003762**	**Param Inter 1 of 2**

Sanitas™ v.10.0.16 . UG

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 Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 57 background values. 22.81% NDs. Annual per-constituent alpha = 0.0224. Individual comparison alpha = 0.0005663 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Boron Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

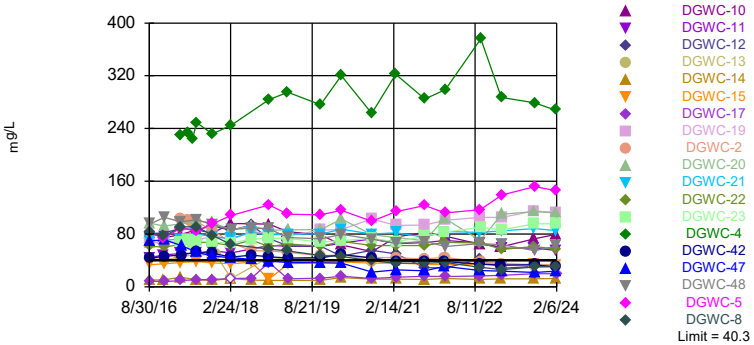
Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

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 57 background values. 3.509% NDs. Annual per-constituent alpha = 0.0224. Individual comparison alpha = 0.0005663 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Calcium Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

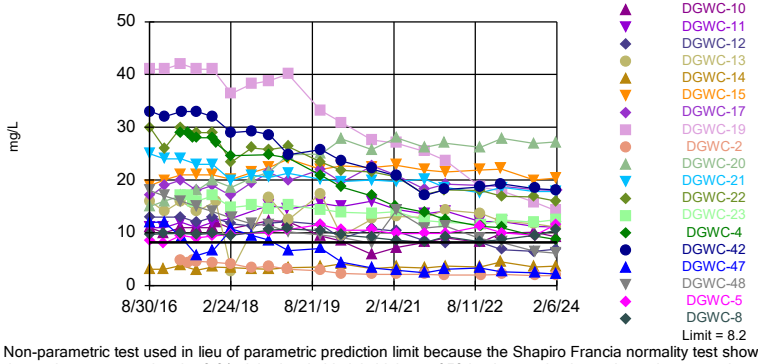
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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 59 background values. Annual per-constituent alpha = 0.02081. Individual comparison alpha = 0.0005257 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Chloride Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

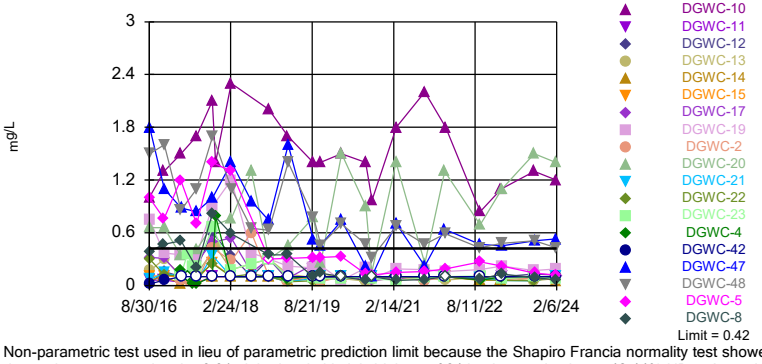
Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Exceeds Limit: DGWC-10, DGWC-20, DGWC-47, DGWC-48

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 64 background values. 48.44% NDs. Annual per-constituent alpha = 0.01802. Individual comparison alpha = 0.0004544 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Fluoride Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

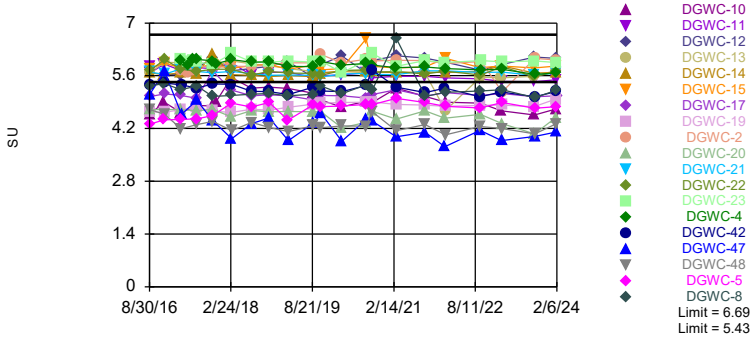
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Exceeds Limits: DGWC-10, DGWC-17, DGWC-19, 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 64 background values. Annual per-constituent alpha = 0.03603. Individual comparison alpha = 0.0009088 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: pH, Field Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

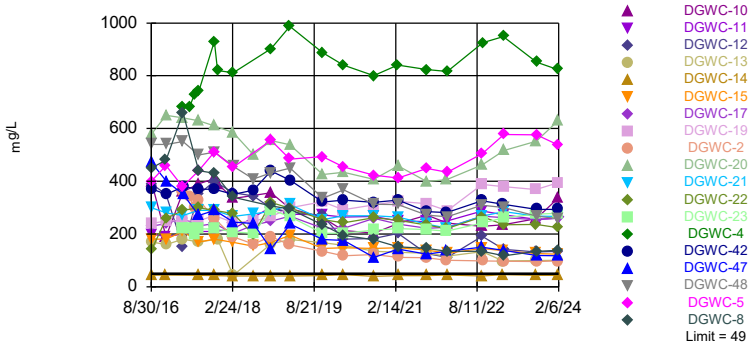
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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 Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 59 background values. 15.25% NDs. Annual per-constituent alpha = 0.02081. Individual comparison alpha = 0.0005257 (1 of 2). Comparing 19 points to limit. Assumes 1 future value.

Constituent: Sulfate Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

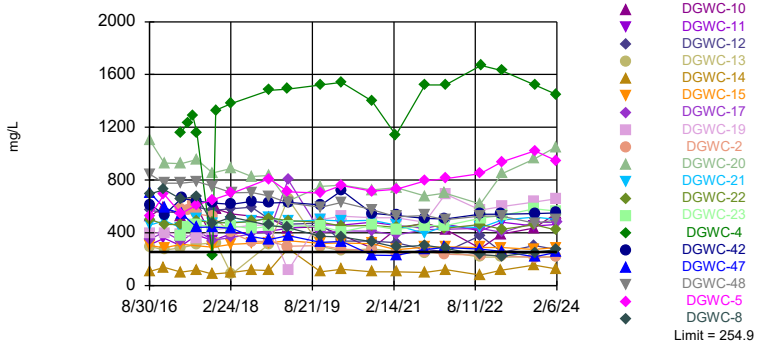
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Exceeds Limit: DGWC-10, DGWC-11, DGWC-12, DGWC-15, DGWC-17, DGWC-19, DGWC-20, DGWC-21, DGWC-22, DGWC-23...

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=9.835, Std. Dev.=2.801, n=58. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9594, critical = 0.944. Kappa = 2.189 (c=7, w=20, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003762. Comparing 19 points to limit. Assumes 1 future value.

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:17 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/30/2016	2.63								
8/31/2016		0.914	0.0419 (J)	3.5	7.5				
9/1/2016						7.64	3.08	0.345	0.955
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	2.72	1.15	0.0804	3.3	5.64				
12/7/2016						8.07	3.34		
12/8/2016								0.352	0.919
3/28/2017					6.16				
3/29/2017	3.04	1.07	0.103	4.3		8.46	3.96		
3/30/2017									0.925
3/31/2017								0.312	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	2.55				4.61				
7/12/2017		1.14	0.044	3.38		7.55	2.82		
7/13/2017								0.28	0.972
8/8/2017									
10/24/2017	2.29	1.18		3.45					
10/25/2017			0.0565		4	9.97	3.19		
10/26/2017								0.269	0.746
11/15/2017									
2/27/2018	2.07	1.17	0.0539	3.23	4.29	8.03			
2/28/2018							2.91		
3/1/2018								0.296	
3/2/2018									0.878
3/8/2018									
7/10/2018									
7/11/2018			0.057			10.2	3.7		
7/12/2018								0.26	0.82
11/6/2018	1.7	1.2		2.1	4.2				
11/7/2018			0.055			7.7	2.6	0.3	0.74
11/8/2018									
3/12/2019	1.5	1.2		0.98	4.3	4.8			
3/13/2019			0.047				2.6		
3/14/2019								0.26	0.72
9/17/2019						6.9			
10/15/2019		1.2		1.6		5.9			
10/16/2019	1.2		0.052		4.3		2.2		
10/17/2019								0.25	
10/18/2019									0.74
3/2/2020		1.6			5.5	3.3			
3/3/2020	1.5		0.15	1.5			3.1		
3/4/2020								0.24	0.77
3/9/2020									
9/22/2020		1.3	0.086 (J)		4.6	4.2	2.6		
9/23/2020	1							0.21	0.65
9/24/2020				0.45					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
3/1/2021									
3/2/2021	0.96	1.3	0.089		4.3		2.3		
3/3/2021						3.6		0.17	0.57
3/4/2021				0.65					
3/12/2021									
9/8/2021									
9/9/2021		1.5	0.08			2	2.7		
9/10/2021				0.24	4.7			0.16	0.55
9/13/2021	0.86								
1/18/2022									
1/20/2022									
1/21/2022								0.17	
1/24/2022					4.4				0.61
1/25/2022	0.98	1.7	0.097			0.7	2.5		
1/26/2022				0.4					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			0.091					0.18	0.61
9/14/2022					5		2.4		
9/15/2022	0.83	1.7		0.42		3.3			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023			0.16						
2/2/2023				0.34					
2/3/2023								0.16	0.59
2/6/2023		1.6				0.51	2.2		
2/7/2023	0.74				3.5				
9/6/2023									
9/7/2023									
9/8/2023		1.7	0.11				2.2		
9/11/2023				0.28		0.46			
9/12/2023	0.75							0.1	
9/13/2023					2.8				0.57
1/30/2024									
1/31/2024									
2/1/2024	0.69	1.5			2.5		2.4		
2/2/2024				0.17		0.41			
2/5/2024			0.13					0.13	0.46
2/6/2024									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	4.81	6.77	3.99						
9/6/2016				1	1.25				
9/7/2016						0.924	0.683		
12/6/2016									
12/7/2016		6.04		0.9	1.56				
12/8/2016	3.57		3.1			0.957	0.688		
3/28/2017								0.0097 (J)	0.0612
3/29/2017		8.23	4.85						
3/30/2017	5.68			0.898	1.5		0.743		
3/31/2017						0.989			
5/11/2017									0.0805
5/12/2017								0.0082 (J)	
5/15/2017									
6/15/2017									0.0725
6/16/2017								0.0085 (J)	
7/11/2017								0.0077 (J)	
7/12/2017	5.2	6.81		0.996	1.49		0.62		0.0735
7/13/2017			3.85			1.03			
8/8/2017									
10/24/2017								0.0083 (J)	0.077
10/25/2017	7.92	8.94	3.9		1.47	0.982	0.739		
10/26/2017									
11/15/2017				0.795					
2/27/2018								0.0069 (J)	
2/28/2018	5.89	6.26	5.14	0.106	1.58	0.918	0.627		
3/1/2018									
3/2/2018									
3/8/2018									0.13 (J)
7/10/2018								0.0059 (J)	
7/11/2018	8.3	5.7			1.4	0.83	0.79		
7/12/2018			3.6						0.076
11/6/2018								<0.04 (J)	
11/7/2018	4.9	5	3.3	0.76	0.8	0.89	1.6		0.073
11/8/2018									
3/12/2019								0.0068 (J)	
3/13/2019	6.2	5.6		0.62			0.76		0.08
3/14/2019			4.1		1.6	0.89			
9/17/2019									
10/15/2019								0.0054 (J)	
10/16/2019				0.65					0.059
10/17/2019	7	5			1.5	0.94			
10/18/2019			4.2				0.82		
3/2/2020								0.01 (J)	
3/3/2020	6.8		4.6	0.61	1.7				
3/4/2020		3.6				1	0.85		
3/9/2020									0.08 (J)
9/22/2020		4.9				0.88		<0.04	0.056 (J)
9/23/2020				0.57	1.6				
9/24/2020	6.1		4.1				0.88		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
3/1/2021								0.0054 (J)	
3/2/2021		3.4		0.58	1.4				
3/3/2021	5.3		3.9			0.87	0.71		
3/4/2021									
3/12/2021									0.064
9/8/2021								<0.04	
9/9/2021	5.8			0.62	1.6				0.065
9/10/2021		4.8	4.5						
9/13/2021						0.95	0.78		
1/18/2022								0.015 (J)	
1/20/2022	6.9		4.2			0.83			
1/21/2022		3.6							
1/24/2022					1.4		0.9		
1/25/2022				0.69					
1/26/2022									
1/28/2022									0.062
9/7/2022								<0.04	
9/8/2022									0.054
9/13/2022					1.5	1.1			
9/14/2022							0.87		
9/15/2022	6.7	4.2		0.69					
9/16/2022			4.2						
9/19/2022									
9/20/2022									
1/31/2023								0.0097 (J)	
2/1/2023				0.54		0.94			0.051
2/2/2023					1.3				
2/3/2023									
2/6/2023			3.8				0.83		
2/7/2023	5.6	3							
9/6/2023								0.015 (J)	
9/7/2023									0.052
9/8/2023				0.55	1.4				
9/11/2023	7.1	2.5	3.9						
9/12/2023									
9/13/2023						1.1	1		
1/30/2024						1.1		0.015 (J)	0.065
1/31/2024	6.5		4.5	0.63					
2/1/2024		2.7							
2/2/2024									
2/5/2024					1.6				
2/6/2024							0.93		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	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	0.0067 (J)	4.01		
3/29/2017				
3/30/2017			4.68	1.56
3/31/2017				
5/11/2017				1.65
5/12/2017		3.58	4.03	
5/15/2017	0.0073 (J)			
6/15/2017	<0.04	3.58	4.11	1.44
6/16/2017				
7/11/2017	<0.04	3.85		1.39
7/12/2017			3.74	
7/13/2017				
8/8/2017	<0.04			
10/24/2017	0.0082 (J)	3.82		1.18
10/25/2017				
10/26/2017			4.07	
11/15/2017				
2/27/2018	0.0062 (J)	4.06		1.12
2/28/2018				
3/1/2018			4.37	
3/2/2018				
3/8/2018				
7/10/2018	0.0077 (J)			
7/11/2018				0.82
7/12/2018			4	
11/6/2018	<0.04 (J)	4.1		0.9
11/7/2018				
11/8/2018			4.7	
3/12/2019	0.0073 (J)	4.6		0.72
3/13/2019				
3/14/2019			4.7	
9/17/2019				
10/15/2019	<0.04	5		
10/16/2019				
10/17/2019				0.73
10/18/2019			4.5	
3/2/2020	0.0055 (J)	5.9		
3/3/2020				0.68
3/4/2020			4.8	
3/9/2020				
9/22/2020	<0.04	4.3		
9/23/2020				0.57
9/24/2020			4.6	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/1/2021	<0.04	4.7		
3/2/2021				0.52
3/3/2021			4	
3/4/2021				
3/12/2021				
9/8/2021				
9/9/2021	<0.04		4.7	0.51
9/10/2021		5		
9/13/2021				
1/18/2022	0.024 (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			
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)			
2/1/2023				
2/2/2023				
2/3/2023		4.5		
2/6/2023			4.4	0.38
2/7/2023				
9/6/2023	0.012 (J)			
9/7/2023				
9/8/2023				
9/11/2023			4.4	
9/12/2023				
9/13/2023		5.1		0.38
1/30/2024				
1/31/2024			5.3	
2/1/2024		4.3		0.37
2/2/2024				
2/5/2024				
2/6/2024				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/30/2016	82.7								
8/31/2016		44.2	9.95	81.7	82.6				
9/1/2016						80.6	65.6	69.3	95.1
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	76.8	48.3	10.4	74.2	73.9				
12/7/2016						82.1	68.3		
12/8/2016								71.1	105
3/28/2017					89.1				
3/29/2017	90.5	50.5	14.4	79.5		88.3	68		
3/30/2017									98.6
3/31/2017								62.6	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	91.1				84.6				
7/12/2017		50.8	10.5	86.3		87	70		
7/13/2017								52.5	102
8/8/2017									
10/24/2017	78.1	55		81.5					
10/25/2017			9.67		95.6	92.1	77		
10/26/2017								46.7	94
11/15/2017									
2/27/2018	64.2	51.4	<25	96.2	108	85.6			
2/28/2018							72		
3/1/2018								44.2	
3/2/2018									86.6
3/8/2018									
7/10/2018									
7/11/2018			9.9			93.6	82.7		
7/12/2018								41.6	89.1
11/6/2018	57	62.6		94.8	124				
11/7/2018			9.7			73.3	81.7	38.6	88
11/8/2018									
3/12/2019	54.3	61.4		83.5	110	62.1			
3/13/2019			9.7				76.9		
3/14/2019								36.6	74.6
10/15/2019		61.2		79.1		61.4			
10/16/2019	47.3		9.4		109		85.7		
10/17/2019								36.2	
10/18/2019									72.7
3/2/2020		65.8			116	46.5			
3/3/2020	46		14	63.6			86.8		
3/4/2020								36	79.7
3/9/2020									
9/22/2020		72.7	11.6		99.2	55.4	103		
9/23/2020	39.3							22.3	72.2
9/24/2020				53.1					
3/1/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
3/2/2021	35.6	65.3	11.4		114		93.2		
3/3/2021						50.1		25.5	66
3/4/2021				75.8					
3/12/2021									
9/8/2021									
9/9/2021		66.8	11.1			29.2	93.6		
9/10/2021				82.4	123			24.4	68.7
9/13/2021	36								
1/18/2022									
1/20/2022									
1/21/2022								31	
1/24/2022					112				61.2
1/25/2022	36.8	70.2	12.4			28.5	101		
1/26/2022				76.8					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			11.2					24.8	65.3
9/14/2022					117		105		
9/15/2022	29.3	66.6		64.4		41.5			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023			11.9						
2/2/2023				60.8					
2/3/2023								23.7	64.1
2/6/2023		58.8				28.3	105		
2/7/2023	26				139				
9/6/2023									
9/7/2023									
9/8/2023		58.6	12				115		
9/11/2023				72.7		30.8			
9/12/2023	30							21.9	
9/13/2023					152				55
1/30/2024									
1/31/2024									
2/1/2024	30.6	55.1			146		113		
2/2/2024				79.3		31.7			
2/5/2024			12.7					23.9	61.7
2/6/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	70.2	96.3	61.6						
9/6/2016				44	33.6				
9/7/2016						43.6	8.61		
12/6/2016									
12/7/2016		91.9		39.8	34.7				
12/8/2016	70.1		60.1			45.8	7.92		
3/28/2017								8.31	30.8
3/29/2017		95.7	64.7						
3/30/2017	72.5			46.3	36.9		9.56		
3/31/2017						48.3			
5/11/2017									35.8
5/12/2017								8.04	
5/15/2017									
6/15/2017									36
6/16/2017								7.66	
7/11/2017								7.71	
7/12/2017	80.4	100		47.8	38.4		10.4		40.3
7/13/2017			67.2			52.3			
8/8/2017									
10/24/2017								6.86	30.3
10/25/2017	75.6	97.3	66.8		36.2	50.9	10.9		
10/26/2017									
11/15/2017				49.3					
2/27/2018								<25	
2/28/2018	73.2	86.3	62.3	<25	35	45.1	<25		
3/1/2018									
3/2/2018									
3/8/2018									39.8
7/10/2018								5.7	
7/11/2018	82.3	92.4			37.5	47.8	13 (J)		
7/12/2018			71						34.7
11/6/2018								5.7	
11/7/2018	78.5	85.9	60.9	44.8	11.4	45.5	37		28.6
11/8/2018									
3/12/2019								5.5	
3/13/2019	79.9	86.4		42.1			11.9 (J)		26.7
3/14/2019			64.8		34.7	43.5			
10/15/2019								5.1	
10/16/2019				43.8					17.7
10/17/2019	79.8	86.9			37	44.1			
10/18/2019			61.7				12.9		
3/2/2020								5.8	
3/3/2020	87.4		68.7	49.3	37.8				
3/4/2020		103				48.8	15.8		
3/9/2020									23.7
9/22/2020		79.2				43.8		5.4	15.5
9/23/2020				39	35.6				
9/24/2020	80		62.6				12.7		
3/1/2021								5.9	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
3/2/2021		74.7		40.5	36				
3/3/2021	82.1		62.3			38.8	14.3		
3/4/2021									
3/12/2021									18.4
9/8/2021								6.1	
9/9/2021	75.3			38.2	34.4				18.3
9/10/2021		69.8	62.3						
9/13/2021						38.9	15.8		
1/18/2022								6.6	
1/20/2022	83.7		67.3			38.1			
1/21/2022		104							
1/24/2022					33.2		15.6		
1/25/2022				43.2					
1/26/2022									
1/28/2022									19.5
9/7/2022								6.4	
9/8/2022									17.2
9/13/2022					34.4	34.2			
9/14/2022							16.4		
9/15/2022	82.2	70.1		36.7					
9/16/2022			66.2						
9/19/2022									
9/20/2022									
1/31/2023								5.7	
2/1/2023				33.6		32.7			14.1
2/2/2023					32.2				
2/3/2023									
2/6/2023			56.7				17.5		
2/7/2023	84.8	110							
9/6/2023								7	
9/7/2023									16.3
9/8/2023				32.7	34.3				
9/11/2023	88.4	114	61.2						
9/12/2023									
9/13/2023						33.6	19.8		
1/30/2024						29.9		6.1	13.7
1/31/2024	85.3		57.1	30.8					
2/1/2024		112							
2/2/2024									
2/5/2024					32.8				
2/6/2024							19.7		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	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	5.14	229		
3/29/2017				
3/30/2017			68.1	103
3/31/2017				
5/11/2017				102
5/12/2017		233	71.1	
5/15/2017	6.5			
6/15/2017	5.38	224	65.9	96.2
6/16/2017				
7/11/2017	5.96	249		98.4
7/12/2017			70	
7/13/2017				
8/8/2017	5.2			
10/24/2017	4.93	232		86
10/25/2017				
10/26/2017			67.2	
11/15/2017				
2/27/2018	<25	245		66.7
2/28/2018				
3/1/2018			66.5	
3/2/2018				
3/8/2018				
7/10/2018	5			
7/11/2018				55
7/12/2018			72	
11/6/2018	5.5	284		54.5
11/7/2018				
11/8/2018			73.5	
3/12/2019	5.1	295		52.2
3/13/2019				
3/14/2019			73.2	
10/15/2019	5.1	276		
10/16/2019				
10/17/2019				47.2
10/18/2019			67.7	
3/2/2020	5.3	320		
3/3/2020				48.4
3/4/2020			69.8	
3/9/2020				
9/22/2020	5	263		
9/23/2020				44.4
9/24/2020			73.7	
3/1/2021	4.1	322		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/2/2021				44
3/3/2021			68.1	
3/4/2021				
3/12/2021				
9/8/2021				
9/9/2021	5.3		76.4	42
9/10/2021		285		
9/13/2021				
1/18/2022	6.1			
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			
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			
2/1/2023				
2/2/2023				
2/3/2023		287		
2/6/2023			86.4	35.3
2/7/2023				
9/6/2023	6.6			
9/7/2023				
9/8/2023				
9/11/2023			95.4	
9/12/2023				
9/13/2023		279		33.6
1/30/2024				
1/31/2024			95.7	
2/1/2024		268		33.3
2/2/2024				
2/5/2024				
2/6/2024				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-10	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/30/2016	9.7								
8/31/2016		11	11	3.1	8.6				
9/1/2016						13	41	12	18
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	9.8	11	10	3.1	8				
12/7/2016						20 (O)	41		
12/8/2016								12	17
3/28/2017					9.5				
3/29/2017	9.9	12	11	3.8		13	42		
3/30/2017									16
3/31/2017								9.1	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	9.7				9				
7/12/2017		11	11	2.9		12	41		
7/13/2017								5.7	15
8/8/2017									
10/24/2017	9.9	12	11						
10/25/2017				3.5	9.4	13	41		
10/26/2017								6.6	14
11/15/2017			12						
2/27/2018	9.5	12.7	10.8	3.4	9.7	11.7			
2/28/2018							36.4		
3/1/2018								10.7	
3/2/2018									12.8
3/8/2018									
7/10/2018									
7/11/2018				3.2		11.3	38.2		
7/12/2018								9.5	11.7
11/6/2018	10.5	15.2	12.3		10.2				
11/7/2018				3.1		11.8	38.8	8.6	11.4
11/8/2018									
3/12/2019	10.7	14.5	12.1		10.6	12.1			
3/13/2019				3.4			40.1		
3/14/2019								6.6	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								7	
10/18/2019									9.6
3/2/2020		15			10.5	8.9			
3/3/2020	9.6		8.4	4.1			30.9		
3/4/2020								4.4	9.1
3/9/2020									
9/22/2020		16		3.2	10.5	10.8	27.6		
9/23/2020	9.1							3.3	8
9/24/2020			5.9						
3/1/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-10	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
3/2/2021	8.6	14.4		3.5	9.8		27		
3/3/2021						10.3		2.9	14.2
3/4/2021			7.2						
3/12/2021									
9/8/2021									
9/9/2021		13.6		3.3		8.5	25.4		
9/10/2021			8.2		9.9			2.4	10.9
9/13/2021	8.2								
1/18/2022									
1/20/2022									
1/21/2022								3.1	
1/24/2022					9.9				11.3
1/25/2022	9.3	14.1		3.7		8.1	23.7		
1/26/2022			9						
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022				3.5				3.3	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									
9/20/2022									
1/31/2023									
2/1/2023				4.5					
2/2/2023			9.9						
2/3/2023								2.6	8.2
2/6/2023		12.1				6.8	17.9		
2/7/2023	8.7				10				
9/6/2023									
9/7/2023									
9/8/2023		11.2		3.5			15.8		
9/11/2023			10.1			6.5			
9/12/2023	9.5							2.4	
9/13/2023					9.5				6.5
1/30/2024									
1/31/2024									
2/1/2024	10.5	11.1			11.6		14.2		
2/2/2024			9.2			6.9			
2/5/2024				3.7				2.2	6.1
2/6/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	15	30	25						
9/6/2016				16	19				
9/7/2016						33	17		
12/6/2016									
12/7/2016	16			14	20				
12/8/2016		26	24			32	19		
3/28/2017								3.6	3.7
3/29/2017	17	30							
3/30/2017			24	16	21		20		
3/31/2017						33			
5/11/2017									2.3
5/12/2017								3.8	
5/15/2017									
6/15/2017									2.6
6/16/2017								3.4	
7/11/2017								3.1	
7/12/2017	18		23	14	21		18		2.3
7/13/2017		29				33			
8/8/2017									
10/24/2017								3.2	2.7
10/25/2017	20	29	23		21	32	19		
10/26/2017									
11/15/2017				16				3.1	2.2
2/27/2018								3.2	
2/28/2018	18.6	23.4	19.9	2.7	20.1	29	17		
3/1/2018									
3/2/2018									
3/8/2018									2.4
7/10/2018								2.5	
7/11/2018	20.4		20.9		21.4	29.3	19.5		
7/12/2018		26.1							2.2
11/6/2018								2.6	
11/7/2018	21.5	25.8	20.5	16.7	22.4	28.6	21.4		2.3
11/8/2018									
3/12/2019								3.3	
3/13/2019	24.8		21.3	12.4			19.9		3.6
3/14/2019		26.3			24	24.8			
10/15/2019								3.3	
10/16/2019				17.4					2
10/17/2019	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	27.8					23.6	19.6		
3/9/2020									1.8
9/22/2020	25.8					22.1		5.2	1.6
9/23/2020				12.6	22.4				
9/24/2020		21.5	20				22.7		
3/1/2021								3.9	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
3/2/2021	28			13.1	22.8				
3/3/2021		20.6	19.7			20.8	20.9		
3/4/2021									
3/12/2021									2
9/8/2021								5.9	
9/9/2021			20.2	12.9	21.9				1.8
9/10/2021	26.2	17.3							
9/13/2021						17.1	18.2		
1/18/2022								5.9	
1/20/2022		18.1	18.6			18.2			
1/21/2022	27								
1/24/2022					21.5		19.2		
1/25/2022				14.3					
1/26/2022									
1/28/2022									1.8
9/7/2022								8.2	
9/8/2022									1.6
9/13/2022					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			1.9
2/2/2023					22.1				
2/3/2023									
2/6/2023		16.9					18.8		
2/7/2023	27.9		18.6						
9/6/2023								7.8	
9/7/2023									1.7
9/8/2023				11.7	20				
9/11/2023	26.9	16.8	17.8						
9/12/2023									
9/13/2023						18.4	18.2		
1/30/2024						18.1		8.2	1.6
1/31/2024		16	17.8	11.1					
2/1/2024	27.2								
2/2/2024									
2/5/2024					20.4				
2/6/2024							18		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWC-23	DGWC-2
8/30/2016				
8/31/2016				
9/1/2016				
9/2/2016				
9/6/2016				
9/7/2016				
12/6/2016				
12/7/2016				
12/8/2016				
3/28/2017	29	3.8		
3/29/2017				
3/30/2017			17	4.8
3/31/2017				
5/11/2017				4.4
5/12/2017	29		17	
5/15/2017		2.2		
6/15/2017	28	2	16	4.8
6/16/2017				
7/11/2017	28	2.1		4.6
7/12/2017			16	
7/13/2017				
8/8/2017		2.2		
10/24/2017	28	2.4		4.4
10/25/2017				
10/26/2017			17	
11/15/2017	27			
2/27/2018	24.6	2.5		4.1
2/28/2018				
3/1/2018			14.8	
3/2/2018				
3/8/2018				
7/10/2018		1.9		
7/11/2018				3.3
7/12/2018			15.2	
11/6/2018	24.8	2.3		3.7
11/7/2018				
11/8/2018			14.6	
3/12/2019	24.2	2.5		3.1
3/13/2019				
3/14/2019			15.2	
10/15/2019	20.9	2.2		
10/16/2019				
10/17/2019				2.8
10/18/2019			14.4	
3/2/2020	18.7	1.9		
3/3/2020				2.3
3/4/2020			13.9	
3/9/2020				
9/22/2020	17	1.9		
9/23/2020				2.1
9/24/2020			13.7	
3/1/2021	15	1.9		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWA-70A (bg)	DGWC-23	DGWC-2
3/2/2021				2.1
3/3/2021			14	
3/4/2021				
3/12/2021				
9/8/2021				
9/9/2021		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				
9/7/2022		2.1		
9/8/2022				
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				
2/2/2023				
2/3/2023	11			
2/6/2023			12.4	2.1
2/7/2023				
9/6/2023		2.2		
9/7/2023				
9/8/2023				
9/11/2023			12	
9/12/2023				
9/13/2023	9.4			1.9
1/30/2024				
1/31/2024			12.5	
2/1/2024	8.7			1.9
2/2/2024				
2/5/2024				
2/6/2024				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/30/2016	0.39								
8/31/2016		0.06 (J)	0.06 (J)	1	1				
9/1/2016						0.02 (J)	0.75	1.8	1.5
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	0.47	0.1 (J)	0.06 (J)	1.3	0.76				
12/7/2016						0.16 (J)	0.37		
12/8/2016								1.1	1.6
3/28/2017					1.2				
3/29/2017	0.51	0.02 (J)	0.04 (J)	1.5		0.1 (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	0.2 (J)				0.7				
7/12/2017		<0.1	0.03 (J)	1.7		0.2 (J)	0.34		
7/13/2017								0.84	1.1
8/8/2017									
10/24/2017	0.82		<0.1	2.1					
10/25/2017		<0.1			1.4	0.6	0.9		
10/26/2017								1	1.7
11/15/2017				1.4					
2/27/2018	0.59	<0.1	<0.1	2.3	1.3	0.34			
2/28/2018							1.2		
3/1/2018								1.4	
3/2/2018									1.1
3/8/2018									
7/10/2018									
7/11/2018		<0.1				<0.1	0.37		
7/12/2018								0.96	0.65
11/6/2018	0.35		<0.1	2	<0.3 (J)				
11/7/2018		<0.1				<0.3 (J)	<0.3 (J)	0.74	0.63
11/8/2018									
3/12/2019	0.35		0.052 (J)	1.7	0.31	0.065 (J)			
3/13/2019		0.042 (J)					0.22 (J)		
3/14/2019								1.6	1.4
8/27/2019		<0.1	<0.1	1.4	0.32	<0.1			
8/28/2019	0.098 (J)						0.2		
8/29/2019								0.52	0.78
10/15/2019			<0.1	1.4		<0.1			
10/16/2019	0.14 (J)	0.052 (J)			0.32		0.23 (J)		
10/17/2019								0.46	
10/18/2019									0.46
3/2/2020			0.064 (J)		0.33	0.071 (J)			
3/3/2020	<0.1	<0.1		1.5			0.056 (J)		
3/4/2020								0.74	0.7
3/9/2020									
8/11/2020		<0.1	<0.1	1.4		<0.1	0.2		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-14	DGWC-11	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/12/2020	0.056 (J)				0.13			0.22	
8/13/2020									0.47
8/14/2020									
9/22/2020		<0.1	<0.1		0.12	<0.1	0.084 (J)		
9/23/2020	<0.1							0.11	0.32
9/24/2020				0.97					
3/1/2021									
3/2/2021	0.059 (J)	<0.1	<0.1		0.15		0.19		
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)	0.18		
9/10/2021				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)	0.16		
1/26/2022				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		0.18		
9/15/2022	0.077 (J)		0.064 (J)	0.84		0.078 (J)			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023		0.067 (J)							
2/2/2023				1.1					
2/3/2023								0.45	0.48
2/6/2023			<0.1			0.1	0.22		
2/7/2023	0.13				0.22				
9/6/2023									
9/7/2023									
9/8/2023		<0.1	<0.1				0.17		
9/11/2023				1.3		0.13			
9/12/2023	0.091 (J)							0.51	
9/13/2023					0.14				0.51
1/30/2024									
1/31/2024									
2/1/2024	0.064 (J)		<0.1		0.12		0.19		
2/2/2024				1.2		0.12			
2/5/2024		0.054 (J)						0.53	0.43
2/6/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	0.3	0.66	0.07 (J)						
9/6/2016				0.11 (J)	0.17 (J)				
9/7/2016						0.32	0.02 (J)		
12/6/2016									
12/7/2016		0.66		0.11 (J)	0.3				
12/8/2016	0.12 (J)		0.14 (J)			0.31	0.06 (J)		
3/28/2017								0.06 (J)	0.12 (J)
3/29/2017	0.11 (J)	0.34							
3/30/2017			<0.1	<0.1	0.12 (J)	0.1 (J)			
3/31/2017							<0.1		
5/11/2017									0.07 (J)
5/12/2017								<0.1	
5/15/2017									
6/15/2017									0.19 (J)
6/16/2017								0.008 (J)	
7/11/2017								0.007 (J)	
7/12/2017		0.41	0.04 (J)	0.07 (J)	0.13 (J)	0.27 (J)			0.1 (J)
7/13/2017	0.09 (J)						<0.1		
8/8/2017									
10/24/2017								<0.1	0.06 (J)
10/25/2017	0.25 (J)	0.68	0.34	0.26 (J)		0.49	<0.1		
10/26/2017									
11/15/2017					0.44			<0.1	0.05 (J)
2/27/2018								<0.1	
2/28/2018	<0.1	0.76	<0.1	<0.1	0.18	0.54	<0.1		
3/1/2018									
3/2/2018									
3/8/2018									<0.1
7/10/2018								<0.1	
7/11/2018		1.3	<0.1	<0.1		0.15 (J)	<0.1		
7/12/2018	0.13 (J)								0.071 (J)
11/6/2018								<0.1	
11/7/2018	<0.1	<0.3 (J)	<0.1	<0.1	<0.3 (J)	<0.3 (J)	<0.1		<0.1
11/8/2018									
3/12/2019								<0.1	
3/13/2019		0.45	0.043 (J)		0.13 (J)	0.084 (J)			0.13 (J)
3/14/2019	0.042 (J)			0.057 (J)			<0.1		
8/27/2019						0.24 (J)		<0.1	
8/28/2019				<0.1	0.091 (J)		<0.1		0.42
8/29/2019	0.054 (J)	0.78	0.079 (J)						
10/15/2019								<0.1	
10/16/2019					0.14 (J)				0.11 (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	<0.1		<0.1	<0.1	0.078 (J)				
3/4/2020		1.5				<0.1	<0.1		
3/9/2020									0.1 (J)
8/11/2020								<0.1	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-20	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)	DGWA-53 (bg)
8/12/2020					0.051 (J)				
8/13/2020		0.9		<0.1			<0.1		0.062 (J)
8/14/2020	<0.1		<0.1			0.069 (J)			
9/22/2020		0.15					<0.1	<0.1	0.099 (J)
9/23/2020				<0.1	0.058 (J)				
9/24/2020	<0.1		<0.1			0.056 (J)			
3/1/2021								<0.1	
3/2/2021		1.4		<0.1	0.084 (J)				
3/3/2021	<0.1		<0.1			0.085 (J)	<0.1		
3/4/2021									
3/12/2021									0.076 (J)
9/8/2021								<0.1	
9/9/2021			<0.1	<0.1	0.083 (J)				0.099 (J)
9/10/2021	<0.1	0.25							
9/13/2021						0.063 (J)	<0.1		
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					0.063 (J)				
1/26/2022									
1/28/2022									0.08 (J)
9/7/2022								0.056 (J)	
9/8/2022									0.11
9/13/2022				0.065 (J)			<0.1		
9/14/2022						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		0.1
2/2/2023				0.065 (J)					
2/3/2023									
2/6/2023	0.057 (J)					0.096 (J)			
2/7/2023		1.1	0.059 (J)						
9/6/2023								<0.1	
9/7/2023									0.082 (J)
9/8/2023				<0.1	0.055 (J)				
9/11/2023	0.054 (J)	1.5	0.054 (J)						
9/12/2023									
9/13/2023						0.1	<0.1		
1/30/2024							<0.1	<0.1	0.07 (J)
1/31/2024	<0.1		<0.1		0.079 (J)				
2/1/2024		1.4							
2/2/2024									
2/5/2024				0.065 (J)					
2/6/2024						0.1			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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	0.17 (J)			1.2 (O)
3/29/2017				
3/30/2017		0.06 (J)	0.12 (J)	
3/31/2017				
5/11/2017		0.06 (J)		
5/12/2017	<0.1		0.36	
5/15/2017				0.005 (J)
6/15/2017	0.02 (J)	0.07 (J)	0.21 (J)	0.02 (J)
6/16/2017				
7/11/2017	0.02 (J)	0.04 (J)		0.06 (J)
7/12/2017			0.22 (J)	
7/13/2017				
8/8/2017				0.04 (J)
10/24/2017	<0.1	0.43		<0.1
10/25/2017				
10/26/2017			0.66	
11/15/2017	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				
7/10/2018				0.082 (J)
7/11/2018		0.6		
7/12/2018			0.25 (J)	
11/6/2018	<0.1	<0.1		<0.1
11/7/2018				
11/8/2018			<0.3 (J)	
3/12/2019	0.082 (J)	0.052 (J)		0.039 (J)
3/13/2019				
3/14/2019			0.092 (J)	
8/27/2019	<0.1	<0.1		<0.1
8/28/2019				
8/29/2019			0.095 (J)	
10/15/2019	<0.1			<0.1
10/16/2019				
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				
8/11/2020		<0.1		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-2	DGWC-23	DGWA-70A (bg)
8/12/2020	<0.1			
8/13/2020			0.1	
8/14/2020				
9/22/2020	<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				
9/8/2021				
9/9/2021		0.053 (J)	0.084 (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				
9/7/2022				0.061 (J)
9/8/2022				
9/13/2022				
9/14/2022				
9/15/2022				
9/16/2022				
9/19/2022	0.061 (J)			
9/20/2022		0.076 (J)	0.11	
1/31/2023				0.053 (J)
2/1/2023				
2/2/2023				
2/3/2023	0.096 (J)			
2/6/2023		0.072 (J)	0.076 (J)	
2/7/2023				
9/6/2023				<0.1
9/7/2023				
9/8/2023				
9/11/2023			0.1	
9/12/2023				
9/13/2023	<0.1	0.083 (J)		
1/30/2024				
1/31/2024			0.074 (J)	
2/1/2024	<0.1	0.067 (J)		
2/2/2024				
2/5/2024				
2/6/2024				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-5	DGWC-14	DGWC-11	DGWC-10	DGWC-48	DGWC-47	DGWC-19	DGWC-20
8/30/2016	5.33								
8/31/2016		4.31	5.68	5.83	4.58				
9/1/2016				5.67		4.7	5.11	4.64	
9/2/2016									4.7
9/6/2016									
9/7/2016									
12/6/2016	5.39	4.43	5.63	5.91	4.9				
12/7/2016								4.63	
12/8/2016						4.58	5.71		
3/28/2017		4.44							
3/29/2017	5.23		5.68	5.74	4.62			4.7	4.7
3/30/2017						4.19			
3/31/2017							4.58		
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	5.33	4.46							
7/12/2017			5.66	5.82	4.81			4.76	4.67
7/13/2017						4.3	4.95		
8/8/2017									
10/24/2017	5.05			5.79	4.8				
10/25/2017		4.54	6.18					4.66	4.71
10/26/2017						4.39	4.41		
11/15/2017					4.9				
2/27/2018	5.08	4.87	5.63	5.94	5.55				
2/28/2018								4.63	4.51
3/1/2018							3.93		
3/2/2018						4.14			
3/8/2018									
7/10/2018	5.11	4.77		5.62	5.27				
7/11/2018			5.61					4.71	4.68
7/12/2018						4.36	4.33		
11/6/2018	5.13	4.89		5.69	5.3				
11/7/2018			5.58			4.23	4.48	4.69	4.64
11/8/2018									
3/12/2019	5.07	4.42		5.7	5.26				
3/13/2019			5.61					4.76	4.65
3/14/2019						4.12	3.88		
8/27/2019		4.83	5.58	5.55	5.14				
8/28/2019	5.11							4.85	
8/29/2019						4.28	4.35		4.64
9/17/2019									
10/15/2019				5.6	4.96				
10/16/2019	5.33	4.78	5.66					4.87	
10/17/2019							4.6		4.64
10/18/2019						4.22			
3/2/2020		4.8		5.62					
3/3/2020	5.12		5.73		4.77			4.89	
3/4/2020						4.27	3.86		4.22
3/9/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-5	DGWC-14	DGWC-11	DGWC-10	DGWC-48	DGWC-47	DGWC-19	DGWC-20
8/11/2020			5.73	5.68	4.92			4.9	
8/12/2020	5.36	4.84					4.43		
8/13/2020						4.26			4.36
8/14/2020									
9/22/2020		4.83	5.7	5.54				4.91	4.66
9/23/2020	5.21					4.64	4.4		
9/24/2020					4.89				
3/1/2021									
3/2/2021	6.6	5	5.69	5.59				4.84	4.45
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		4.89			5.05	4.3	4.1		4.67
9/13/2021	5.05								
1/18/2022									
1/20/2022									
1/21/2022							3.72		4.47
1/24/2022		4.79				4.03			
1/25/2022	5.16		5.69	5.54				4.79	
1/26/2022					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			5.52	4.87				4.58
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023			5.87						
2/2/2023					4.67				
2/3/2023						4.2	3.88		
2/6/2023				5.45				4.82	
2/7/2023	5.23	4.89							4.33
9/6/2023									
9/8/2023			5.67	5.44				4.78	
9/11/2023					4.56				4.06
9/12/2023	5.02						3.99		
9/13/2023		4.74				4.06			
1/30/2024									
1/31/2024									
2/1/2024	5.21	4.78		5.49				4.98	4.49
2/2/2024					4.72				
2/5/2024			5.69			4.33	4.11		
2/6/2024									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-12	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	5.74	5.7							
9/6/2016			5.79	5.69					
9/7/2016					5.35	5.05			
12/6/2016									
12/7/2016			5.94	5.96			5.65		
12/8/2016	6.03	5.64			5.41	5.12			
3/28/2017								5.94	6.29
3/29/2017	5.77						5.61		
3/30/2017		5.79	5.8	5.94		5.08			
3/31/2017					5.36				
5/11/2017									6.6
5/12/2017								5.46	
5/15/2017									
6/15/2017									6.41
6/16/2017								5.81	
7/11/2017								5.74	
7/12/2017		5.71	5.81	5.84		5	5.81		5.91
7/13/2017	5.71				5.27				
8/8/2017									
10/24/2017								5.86	5.51
10/25/2017	5.77	5.68	5.9		5.38	5.73	6.07		
10/26/2017									
11/15/2017				5.87				5.77	6.5
2/27/2018							5.73	5.66	
2/28/2018	5.77	5.71	5.8	5.99	5.37	5.22			
3/1/2018									
3/2/2018									
3/8/2018									6.18
7/10/2018				5.92				5.63	
7/11/2018			5.87		5.19	5.07			
7/12/2018	5.62								6.33
11/6/2018								5.79	
11/7/2018	5.71	5.61	5.9	5.87	5.18	5.09	5.85		6.22
11/8/2018									
3/12/2019							5.98	5.74	
3/13/2019		5.62		5.79		5.07			6
3/14/2019	5.67		5.77		5.1				
8/27/2019						4.96	5.55	5.87	
8/28/2019			5.88	5.71	5.3				6.04
8/29/2019	5.66	5.61							
9/17/2019							5.6		
10/15/2019							5.89	5.88	
10/16/2019				5.69					6.69
10/17/2019		5.57	5.76		5.2				
10/18/2019	5.61					5.08			
3/2/2020							6.13	5.77	
3/3/2020	5.74	5.65	5.79	5.71		5.07			
3/4/2020					5.18	5.07			
3/9/2020									6.41

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-42	DGWC-17	DGWC-12	DGWA-71 (bg)	DGWA-53 (bg)
8/11/2020							5.69	5.96	
8/12/2020				5.68					
8/13/2020			6.58		5.34				6.17
8/14/2020	5.76	5.66				5.01			
9/22/2020					5.76		6	6.06	6.43
9/23/2020			5.85	5.72					
9/24/2020	5.69	5.64				5.1			
3/1/2021								5.8	
3/2/2021			5.81	5.68					
3/3/2021	5.71	5.63			5.3	5.23	6.13		
3/4/2021									
3/12/2021									6.38
9/8/2021								5.76	
9/9/2021		5.73	5.83	5.69			6.07		6.41
9/10/2021	5.65								
9/13/2021					5.15	5.06			
1/18/2022								5.51	
1/20/2022	5.72	5.73			5.27				
1/21/2022									
1/24/2022			6.06			5.15			
1/25/2022				4.68			5.96		
1/26/2022									
1/28/2022									6.35
9/7/2022								5.65	
9/8/2022									6.32
9/13/2022			5.82		5.04				
9/14/2022						5.08			
9/15/2022		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				6.42
2/2/2023			5.86						
2/3/2023									
2/6/2023	5.84					5.13	5.9		
2/7/2023		5.7							
9/6/2023								5.82	6.51
9/8/2023			5.81	5.59					
9/11/2023	5.57	5.61					6.1		
9/12/2023					5.04				
9/13/2023						5.04			
1/30/2024					5.18			5.79	6.28
1/31/2024	5.71	5.67		5.74					
2/1/2024									
2/2/2024							6.06		
2/5/2024			5.86						
2/6/2024						5.07			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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			
3/29/2017				
3/30/2017		5.75	6.03	
3/31/2017				
5/11/2017		5.67		
5/12/2017	5.87		5.97	
5/15/2017				5.72
6/15/2017	6.03	5.75	6	5.74
6/16/2017				
7/11/2017	6.04	5.87		5.62
7/12/2017			5.97	
7/13/2017				
8/8/2017				5.6
10/24/2017	5.99	5.82		5.71
10/25/2017				
10/26/2017			5.9	
11/15/2017	5.92			
2/27/2018	6.03	5.85		5.5
2/28/2018				
3/1/2018			6.19	
3/2/2018				
3/8/2018				
7/10/2018	5.96			5.44
7/11/2018		5.85		
7/12/2018			5.97	
11/6/2018	5.97	5.88		5.71
11/7/2018				
11/8/2018			5.96	
3/12/2019	5.85	5.94		5.52
3/13/2019				
3/14/2019			5.99	
8/27/2019	5.84	5.94		5.53
8/28/2019				
8/29/2019			5.96	
9/17/2019				
10/15/2019	5.98			5.61
10/16/2019				
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				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-2	DGWC-23	DGWA-70A (bg)
8/11/2020		6.04		5.86
8/12/2020	5.93			
8/13/2020			6	
8/14/2020				
9/22/2020	5.88			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				
9/8/2021				
9/9/2021		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				
9/7/2022				5.6
9/8/2022				
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				
2/2/2023				
2/3/2023	5.77			
2/6/2023		5.17	5.97	
2/7/2023				
9/6/2023				5.5
9/8/2023				
9/11/2023			5.99	
9/12/2023				
9/13/2023	5.64	6.06		
1/30/2024				
1/31/2024			5.95	
2/1/2024	5.67	6.02		
2/2/2024				
2/5/2024				
2/6/2024				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-10	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/30/2016	450								
8/31/2016		200	400	44	400				
9/1/2016						390	240	470	540
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	480	190	190	45	460				
12/7/2016						350	250		
12/8/2016								400	540
3/28/2017					380				
3/29/2017	660	200	360	81 (O)		150	250		
3/30/2017									550
3/31/2017								350	
5/11/2017									
5/12/2017									
5/15/2017									
6/15/2017									
6/16/2017									
7/11/2017	440				440				
7/12/2017		210	390	44		350	250		
7/13/2017								270	500
8/8/2017									
10/24/2017	430	210	410						
10/25/2017				42	510	400	270		
10/26/2017								290	510
11/15/2017			390						
2/27/2018	340	220	335	41	453	356			
2/28/2018							244		
3/1/2018								245	
3/2/2018									456
3/8/2018									
7/10/2018									
7/11/2018				40.6		344	249		
7/12/2018								240	409
11/6/2018	307	302	356		556				
11/7/2018				41.3		298	266	143	432
11/8/2018									
3/12/2019	295	275	297		484	284			
3/13/2019				41.2			299		
3/14/2019								238	450
10/15/2019		273	263			270			
10/16/2019	235			42.1	493		323		
10/17/2019								179	
10/18/2019									336
3/2/2020		264			455	181			
3/3/2020	195		213	45.5			292		
3/4/2020								176	368
3/9/2020									
9/22/2020		267		40.2	423	183	310		
9/23/2020	178							111	313
9/24/2020			204						
3/1/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-10	DGWC-14	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
3/2/2021	152	250		42.6	412		324		
3/3/2021						203		143	312
3/4/2021			240						
3/12/2021									
9/8/2021									
9/9/2021		247		42.3		126	315		
9/10/2021			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	250		44.4		111	288		
1/26/2022			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			191			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023				45.9					
2/2/2023			235						
2/3/2023								138	301
2/6/2023		273				142	379		
2/7/2023	118				577				
9/6/2023									
9/7/2023									
9/8/2023		256		43.1			369		
9/11/2023			258			132			
9/12/2023	134							119	
9/13/2023					576				268
1/30/2024									
1/31/2024									
2/1/2024	138	260			539		394		
2/2/2024			336			134			
2/5/2024				44				118	258
2/6/2024									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	580	140	300						
9/6/2016				180	170				
9/7/2016						230	370		
12/6/2016									
12/7/2016	650			180	160				
12/8/2016		260	280			240	350		
3/28/2017								17	49
3/29/2017	640	290							
3/30/2017			270	210	180	260			
3/31/2017							380		
5/11/2017									21
5/12/2017								17	
5/15/2017									
6/15/2017									16
6/16/2017								11	
7/11/2017								11	
7/12/2017	630		290	170	170	230			10
7/13/2017		300					370		
8/8/2017									
10/24/2017								9.6	15
10/25/2017	610	290	290	180		240	370		
10/26/2017									
11/15/2017					180			7.8	3.8
2/27/2018								7.4	
2/28/2018	584	278	267	168	43.5	203	350		
3/1/2018									
3/2/2018									
3/8/2018									9.7
7/10/2018								7.2	
7/11/2018	501		277	154		234	366		
7/12/2018		197							8
11/6/2018								7.3	
11/7/2018	554	320	286	168	162	248	439		12.8
11/8/2018									
3/12/2019								7	
3/13/2019	539		312		179	268			23.7
3/14/2019		297		195			404		
10/15/2019								7.4	
10/16/2019					167				15.1
10/17/2019	426		255	146			321		
10/18/2019		254				222			
3/2/2020								8.5	
3/3/2020		242	269	148	157				
3/4/2020	434					222	329		
3/9/2020									9.5
9/22/2020	408						320	6.5	13.5
9/23/2020				146	134				
9/24/2020		262	269			259			
3/1/2021								5.2	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-21	DGWC-15	DGWC-13	DGWC-17	DGWC-42	DGWA-71 (bg)	DGWA-53 (bg)
3/2/2021	458			148	131				
3/3/2021		252	264			237	329		
3/4/2021									
3/12/2021									8.8
9/8/2021								6.1	
9/9/2021			238	139	127				11.9
9/10/2021	399	234							
9/13/2021						222	285		
1/18/2022								6.3	
1/20/2022		221	223				281		
1/21/2022	406								
1/24/2022				127		225			
1/25/2022					116				
1/26/2022									
1/28/2022									13.1
9/7/2022								7	
9/8/2022									12
9/13/2022				145			326		
9/14/2022						268			
9/15/2022	462		268		133				
9/16/2022		265							
9/19/2022									
9/20/2022									
1/31/2023								6.8	
2/1/2023					97.5		313		13.3
2/2/2023				137					
2/3/2023									
2/6/2023		235				262			
2/7/2023	517		285						
9/6/2023								7.2	
9/7/2023									15.4
9/8/2023				126	98.7				
9/11/2023	552	236	268						
9/12/2023									
9/13/2023						255	294		
1/30/2024							294	7.9	13.4
1/31/2024		224	267		100				
2/1/2024	628								
2/2/2024									
2/5/2024				124					
2/6/2024						261			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	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	2.7	680		
3/29/2017				
3/30/2017			360	220
3/31/2017				
5/11/2017			340	
5/12/2017		680		220
5/15/2017	1			
6/15/2017	0.86 (J)	730	300	200
6/16/2017				
7/11/2017	1.4	740	330	
7/12/2017				220
7/13/2017				
8/8/2017	1.5			
10/24/2017	1.4	930	260	
10/25/2017				
10/26/2017				220
11/15/2017		820		
2/27/2018	0.54 (J)	811	189	
2/28/2018				
3/1/2018				209
3/2/2018				
3/8/2018				
7/10/2018	0.25 (J)			
7/11/2018			162	
7/12/2018				202
11/6/2018	<1 (J)	902	190	
11/7/2018				
11/8/2018				292
3/12/2019	0.35 (J)	987	159	
3/13/2019				
3/14/2019				266
10/15/2019	0.16 (J)	888		
10/16/2019				
10/17/2019			134	
10/18/2019				203
3/2/2020	<1	840		
3/3/2020			118	
3/4/2020				204
3/9/2020				
9/22/2020	<1	800		
9/23/2020			122	
9/24/2020				215
3/1/2021	<1	840		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWC-2	DGWC-23
3/2/2021			112	
3/3/2021				221
3/4/2021				
3/12/2021				
9/8/2021				
9/9/2021	<1		110	217
9/10/2021		823		
9/13/2021				
1/18/2022	<1			
1/20/2022			101	211
1/21/2022				
1/24/2022		816		
1/25/2022				
1/26/2022				
1/28/2022				
9/7/2022	<1			
9/8/2022				
9/13/2022				
9/14/2022				
9/15/2022				
9/16/2022				
9/19/2022		925		
9/20/2022			98.4	242
1/31/2023	<1			
2/1/2023				
2/2/2023				
2/3/2023		949		
2/6/2023			96.4	262
2/7/2023				
9/6/2023	<1			
9/7/2023				
9/8/2023				
9/11/2023				275
9/12/2023				
9/13/2023		852	95.5	
1/30/2024				
1/31/2024				279
2/1/2024		824	97.6	
2/2/2024				
2/5/2024				
2/6/2024				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
8/30/2016	693								
8/31/2016		307	106	525	524				
9/1/2016						568	396	704	845
9/2/2016									
9/6/2016									
9/7/2016									
12/6/2016	727	358	138	595	690				
12/7/2016						559	400		
12/8/2016								587	777
3/28/2017					545				
3/29/2017	654	300	102	525		550	390		
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				612				
7/12/2017		382	118	598		594	360		
7/13/2017								441	789
8/8/2017									
10/24/2017	468	342		353					
10/25/2017			88		650	571	423		
10/26/2017								444	753
11/15/2017				582					
2/27/2018	520	393	99	542	698	582			
2/28/2018							440		
3/1/2018								435	
3/2/2018									704
3/8/2018									
7/10/2018									
7/11/2018			119			593	457		
7/12/2018								372	705
11/6/2018	456	412		512	809				
11/7/2018			113			504	461	348	678
11/8/2018									
3/12/2019	438	433		436	711	465			
3/13/2019			280				113		
3/14/2019								378	625
10/15/2019		461		447		472			
10/16/2019	374		104		702		500		
10/17/2019								327	
10/18/2019									593
3/2/2020		458			759	338			
3/3/2020	369		123	382			526		
3/4/2020								334	630
3/9/2020									
9/22/2020		481	105		716	338	513		
9/23/2020	333							229	575
9/24/2020				283					
3/1/2021									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-11	DGWC-14	DGWC-10	DGWC-5	DGWC-12	DGWC-19	DGWC-47	DGWC-48
3/2/2021	291	456	105		730		513		
3/3/2021						325		228	521
3/4/2021				430					
3/12/2021									
9/8/2021									
9/9/2021		433	99			275	480		
9/10/2021				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	465	120			258	694		
1/26/2022				425					
1/28/2022									
9/7/2022									
9/8/2022									
9/13/2022			80					277	527
9/14/2022					850		572		
9/15/2022	234	414		280		377			
9/16/2022									
9/19/2022									
9/20/2022									
1/31/2023									
2/1/2023			116						
2/2/2023				390					
2/3/2023								259	527
2/6/2023		481				251	600		
2/7/2023	223				939				
9/6/2023									
9/7/2023									
9/8/2023		451	156				634		
9/11/2023				436		302			
9/12/2023	251							218	
9/13/2023					1020				473
1/30/2024									
1/31/2024									
2/1/2024	272	463			948		656		
2/2/2024				548		274			
2/5/2024			127					253	496
2/6/2024									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016	459	1100	502						
9/6/2016				296	304				
9/7/2016						611	353		
12/6/2016									
12/7/2016		930		270	287				
12/8/2016	491		464			535	408		
3/28/2017								90	202
3/29/2017		923	462						
3/30/2017	436			287	312		338		
3/31/2017						661			
5/11/2017									241
5/12/2017								92	
5/15/2017									
6/15/2017									251
6/16/2017								100	
7/11/2017								59	
7/12/2017	505	956		312	490 (O)		417		218
7/13/2017			492			641			
8/8/2017									
10/24/2017								117	671 (O)
10/25/2017	474	854	477		290	626	343		
10/26/2017									
11/15/2017				325				90	241
2/27/2018								79	
2/28/2018	480	888	476	84	313	616	364		
3/1/2018									
3/2/2018									
3/8/2018									213
7/10/2018								88	
7/11/2018	485	826			320	638	393		
7/12/2018			486						198
11/6/2018								85	
11/7/2018	516	834	511	314	325	626	408		200
11/8/2018									
3/12/2019								74	
3/13/2019	486	639		656			802		201
3/14/2019			491		340	630			
10/15/2019								89	
10/16/2019				296					126
10/17/2019	498	751			319	612			
10/18/2019			480				403		
3/2/2020								67	
3/3/2020	490		452	263	323				
3/4/2020		761				721	414		
3/9/2020									171
9/22/2020		724				547		74	142
9/23/2020				278	317				
9/24/2020	494		455				411		
3/1/2021								62	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-21	DGWC-20	DGWC-22	DGWC-13	DGWC-15	DGWC-42	DGWC-17	DGWA-71 (bg)	DGWA-53 (bg)
3/2/2021		742		256	272				
3/3/2021	459		442			531	384		
3/4/2021									
3/12/2021									124
9/8/2021								75	
9/9/2021	396			246	292				131
9/10/2021		678	468						
9/13/2021						508	424		
1/18/2022								76	
1/20/2022	451		434			504			
1/21/2022		702							
1/24/2022					294		426		
1/25/2022				256					
1/26/2022									
1/28/2022									155
9/7/2022								82	
9/8/2022									129
9/13/2022					289	540			
9/14/2022							434		
9/15/2022	440	618		216					
9/16/2022			462						
9/19/2022									
9/20/2022									
1/31/2023								87	
2/1/2023				216		541			116
2/2/2023					288				
2/3/2023									
2/6/2023			427				403		
2/7/2023	498	848							
9/6/2023								80	
9/7/2023									123
9/8/2023				217	274				
9/11/2023	519	960	460						
9/12/2023									
9/13/2023						545	480		
1/30/2024						551		86	130
1/31/2024	503		423	216					
2/1/2024		1050							
2/2/2024									
2/5/2024					288				
2/6/2024							477		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	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	39	1160		
3/29/2017				
3/30/2017			380	580
3/31/2017				
5/11/2017				573
5/12/2017		1230	438	
5/15/2017	88			
6/15/2017	65	1290	458	626
6/16/2017				
7/11/2017	25	1160		542
7/12/2017			461	
7/13/2017				
8/8/2017	53			
10/24/2017	49	229		523
10/25/2017				
10/26/2017			446	
11/15/2017		1330		
2/27/2018	43	1380		401
2/28/2018				
3/1/2018			454	
3/2/2018				
3/8/2018				
7/10/2018	80			
7/11/2018				334
7/12/2018			432	
11/6/2018	65	1480		334
11/7/2018				
11/8/2018			450	
3/12/2019	43	1490		297
3/13/2019				
3/14/2019			453	
10/15/2019	70	1520		
10/16/2019				
10/17/2019				302
10/18/2019			448	
3/2/2020	52	1540		
3/3/2020				277
3/4/2020			408	
3/9/2020				
9/22/2020	46	1400		
9/23/2020				267
9/24/2020			456	
3/1/2021	25	1140		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/3/2024 4:20 PM View: AP 234 Appendix III

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWA-70A (bg)	DGWC-4	DGWC-23	DGWC-2
3/2/2021				241
3/3/2021			425	
3/4/2021				
3/12/2021				
9/8/2021				
9/9/2021	53		455	260
9/10/2021		1520		
9/13/2021				
1/18/2022	54			
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			
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			
2/1/2023				
2/2/2023				
2/3/2023		1630		
2/6/2023			532	226
2/7/2023				
9/6/2023	46			
9/7/2023				
9/8/2023				
9/11/2023			582	
9/12/2023				
9/13/2023		1520		212
1/30/2024				
1/31/2024			564	
2/1/2024		1450		220
2/2/2024				
2/5/2024				
2/6/2024				

FIGURE E.

Appendix III - Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWC-10	-0.5325	-127	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-11	0.0857	118	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-12	-1.251	-143	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-13	-0.04354	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-17	0.03571	95	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-19	-0.1367	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-2	-0.1638	-164	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-20	-0.6076	-133	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-4	0.1875	83	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-48	-0.05843	-132	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-8	-0.2933	-138	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-53 (bg)	-3.309	-123	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-11	2.526	71	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-19	6.386	150	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-21	1.937	107	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-23	3.525	110	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-4	11.01	75	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-48	-6.099	-145	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-5	8.033	111	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-53 (bg)	-0.1368	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWA-71 (bg)	0.6551	91	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-19	-3.946	-149	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-20	1.83	136	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-21	-0.867	-134	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-22	-2.021	-144	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-23	-0.7636	-133	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-4	-3.158	-165	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-42	-2.465	-141	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-5	0.2584	69	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-47	-0.1076	-112	-87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-48	-0.1219	-123	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-19	0.03123	103	87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-20	-0.03495	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-42	-0.0308	-90	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-47	-0.133	-97	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-71 (bg)	-0.5658	-103	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-12	-37.31	-110	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-13	-10.68	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-15	-7.813	-131	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-19	20.1	122	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-2	-32.72	-159	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-42	-11.61	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-47	-34.86	-134	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-48	-42.51	-146	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-8	-56.68	-134	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-53 (bg)	-18.25	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-11	19.93	93	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-12	-49.92	-118	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-17	11.35	85	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-19	35.09	124	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-22	-6.577	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-4	54.23	92	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-48	-50.3	-148	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-5	48.99	127	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-8	-62.38	-135	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	DGWA-53 (bg)	-0.003408	-71	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-70A (bg)	0	18	74	No	19	47.37	n/a	n/a	0.01	NP
Boron (mg/L)	DGWA-71 (bg)	0.0007741	34	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-10**	**-0.5325**	**-127**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-11**	**0.0857**	**118**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-12**	**-1.251**	**-143**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-13**	**-0.04354**	**-73**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-15	0	8	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-17**	**0.03571**	**95**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-19**	**-0.1367**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-2**	**-0.1638**	**-164**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**DGWC-20**	**-0.6076**	**-133**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-21	0.1866	45	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-22	0.0435	23	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	DGWC-23	0.07961	44	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-4**	**0.1875**	**83**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-42	0.005145	13	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-48**	**-0.05843**	**-132**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	DGWC-5	-0.3018	-56	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**DGWC-8**	**-0.2933**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWA-53 (bg)**	**-3.309**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWA-70A (bg)	0.05458	18	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWA-71 (bg)	-0.2452	-41	-74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	DGWC-10	-1.637	-49	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-11**	**2.526**	**71**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-19**	**6.386**	**150**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-20	0.3674	7	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-21**	**1.937**	**107**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	DGWC-22	-0.4355	-22	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**DGWC-23**	**3.525**	**110**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-4**	**11.01**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-48**	**-6.099**	**-145**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**DGWC-5**	**8.033**	**111**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWA-53 (bg)**	**-0.1368**	**-123**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWA-70A (bg)	-0.02694	-40	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWA-71 (bg)**	**0.6551**	**91**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-10	-0.2866	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-11	0.0189	16	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-13	-0.4208	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-15	0.1841	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	DGWC-17	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**DGWC-19**	**-3.946**	**-149**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-20**	**1.83**	**136**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-21**	**-0.867**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-22**	**-2.021**	**-144**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-23**	**-0.7636**	**-133**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-4**	**-3.158**	**-165**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-42**	**-2.465**	**-141**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**DGWC-5**	**0.2584**	**69**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	DGWC-8	-0.1337	-41	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-53 (bg)	-0.004305	-32	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-70A (bg)	0	54	81	No	20	60	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWA-71 (bg)	0	19	92	No	22	77.27	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-10	-0.03229	-30	-87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	DGWC-20	0.08716	67	87	No	21	4.762	n/a	n/a	0.01	NP
Fluoride (mg/L)	**DGWC-47**	**-0.1076**	**-112**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**DGWC-48**	**-0.1219**	**-123**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWA-53 (bg)	0.02221	32	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-70A (bg)	-0.02199	-46	-81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWA-71 (bg)	0.004314	12	92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-10	-0.0137	-27	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-17	0	-4	-92	No	22	0	n/a	n/a	0.01	NP
pH, Field (SU)	**DGWC-19**	**0.03123**	**103**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-20**	**-0.03495**	**-97**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-42**	**-0.0308**	**-90**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**DGWC-47**	**-0.133**	**-97**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	DGWC-48	-0.02727	-58	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	DGWC-5	0.05168	75	87	No	21	0	n/a	n/a	0.01	NP

Appendix III - Trend Test Summary - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH, Field (SU)	DGWC-8	-0.005291	-13	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-53 (bg)	-0.2974	-16	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWA-70A (bg)	0	-23	-74	No	19	47.37	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWA-71 (bg)**	**-0.5658**	**-103**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-10	-20.19	-62	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-11	9.25	61	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-12**	**-37.31**	**-110**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-13**	**-10.68**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-15**	**-7.813**	**-131**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-17	2.475	33	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-19**	**20.1**	**122**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-2**	**-32.72**	**-159**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-20	-27.12	-69	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-21	-3.629	-71	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-22	-7.585	-48	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-23	4.103	53	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	DGWC-4	18.73	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-42**	**-11.61**	**-99**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-47**	**-34.86**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**DGWC-48**	**-42.51**	**-146**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	DGWC-5	12.32	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**DGWC-8**	**-56.68**	**-134**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWA-53 (bg)**	**-18.25**	**-118**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWA-70A (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWA-71 (bg)	-1.554	-46	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-10	-23.07	-63	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-11**	**19.93**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-12**	**-49.92**	**-118**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-15	-2.951	-38	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-17**	**11.35**	**85**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-19**	**35.09**	**124**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-20	-44.39	-59	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	DGWC-21	2.684	23	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-22**	**-6.577**	**-88**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-23	13.25	70	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-4**	**54.23**	**92**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	DGWC-42	-15.65	-58	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**DGWC-48**	**-50.3**	**-148**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-5**	**48.99**	**127**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**DGWC-8**	**-62.38**	**-135**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

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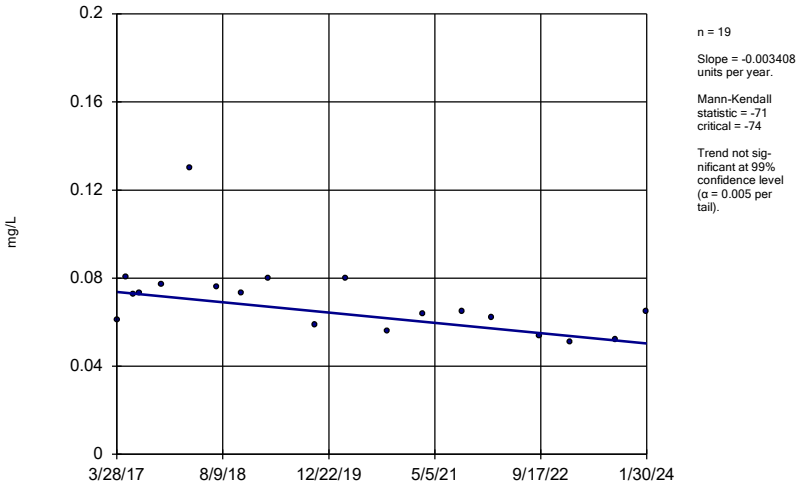
Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -0.003408 units per year.

Mann-Kendall statistic = -71
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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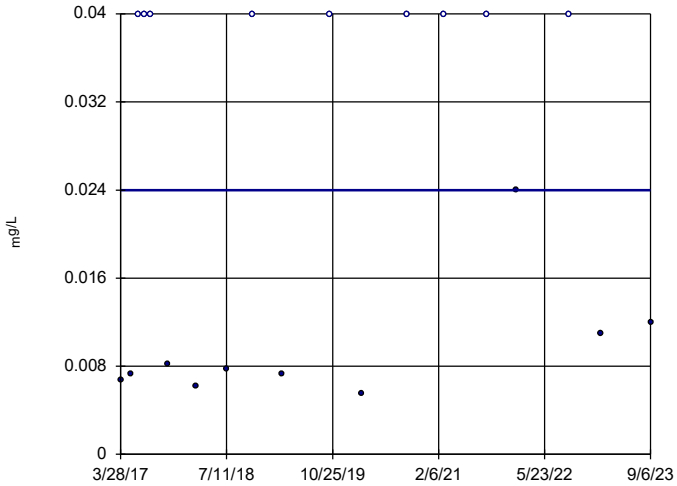
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 74

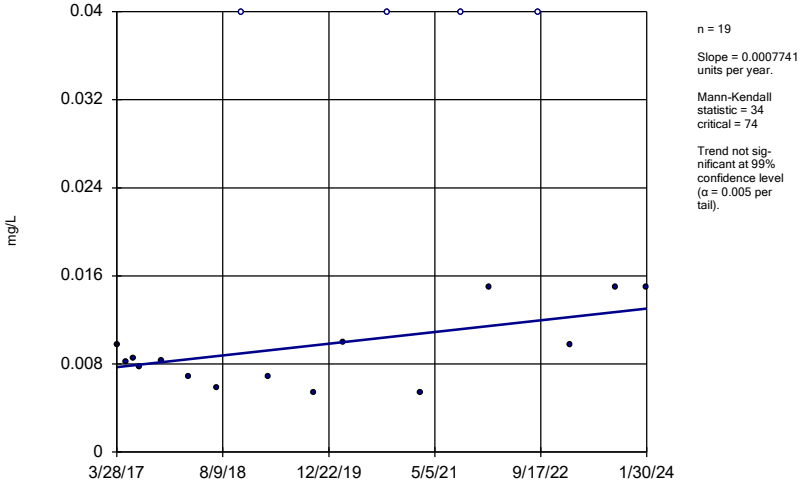
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 19

Slope = 0.0007741 units per year.

Mann-Kendall statistic = 34
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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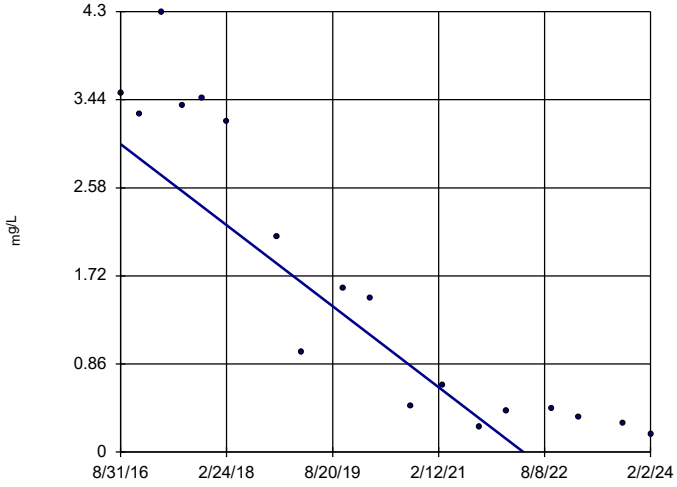
Sen's Slope Estimator

DGWC-10



n = 18

Slope = -0.5325 units per year.

Mann-Kendall statistic = -127
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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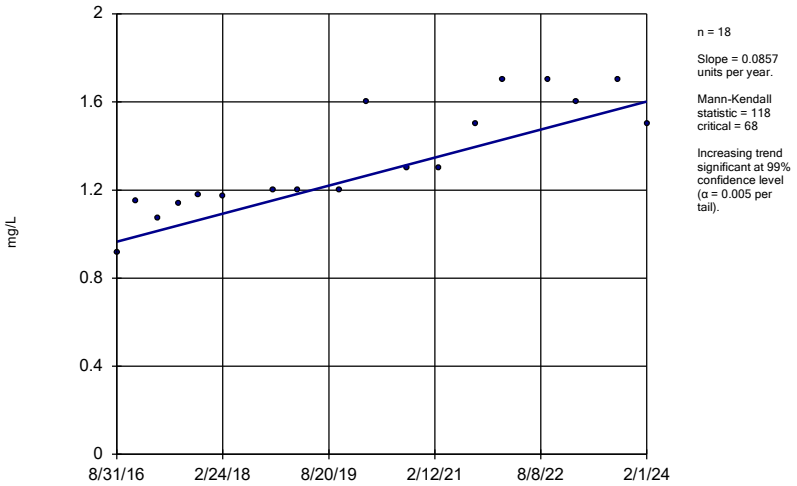
Sen's Slope Estimator

DGWC-11



n = 18

Slope = 0.0857 units per year.

Mann-Kendall statistic = 118
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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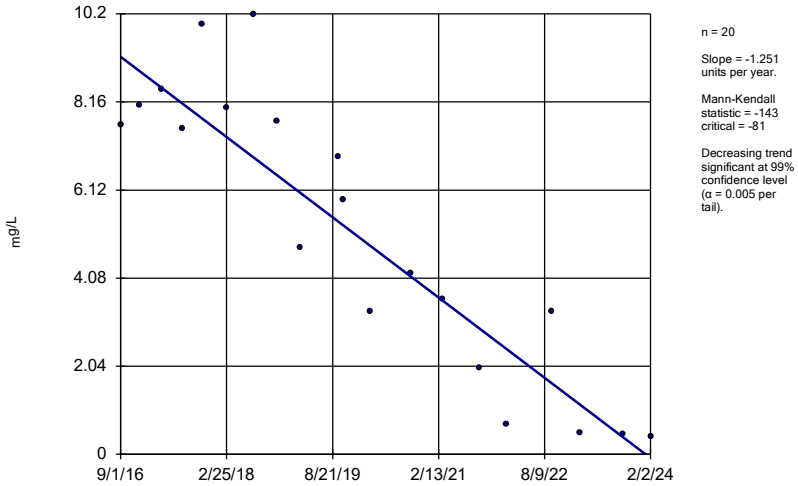
Sen's Slope Estimator

DGWC-12



n = 20

Slope = -1.251 units per year.

Mann-Kendall statistic = -143
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

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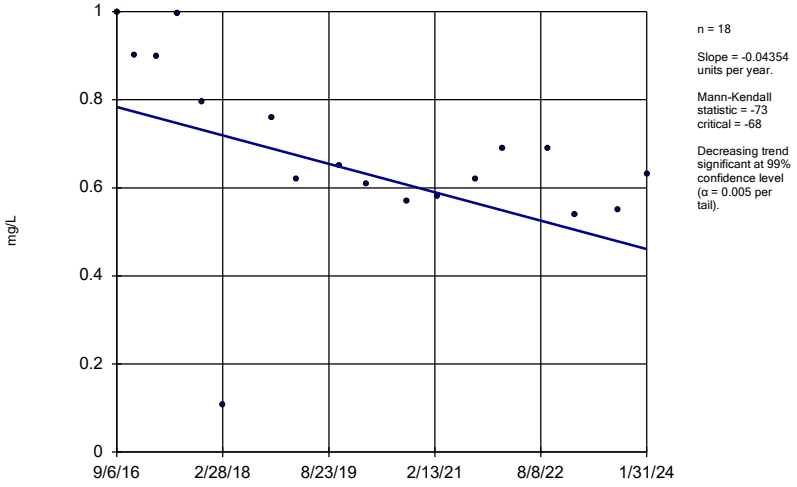
Sen's Slope Estimator

DGWC-13



n = 18

Slope = -0.04354 units per year.

Mann-Kendall statistic = -73
critical = -68

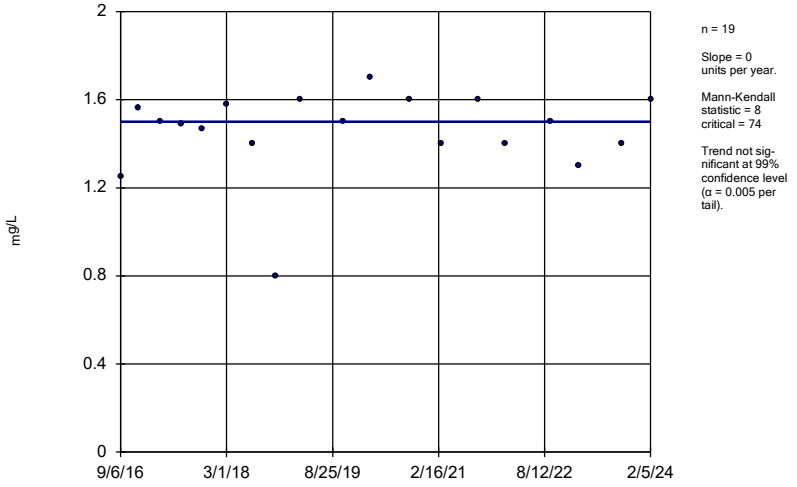
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-15



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 8
critical = 74

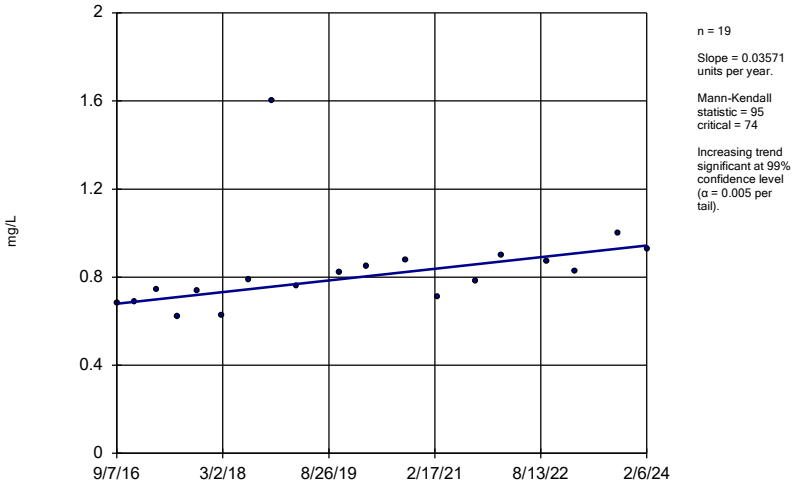
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-17



n = 19

Slope = 0.03571 units per year.

Mann-Kendall statistic = 95
critical = 74

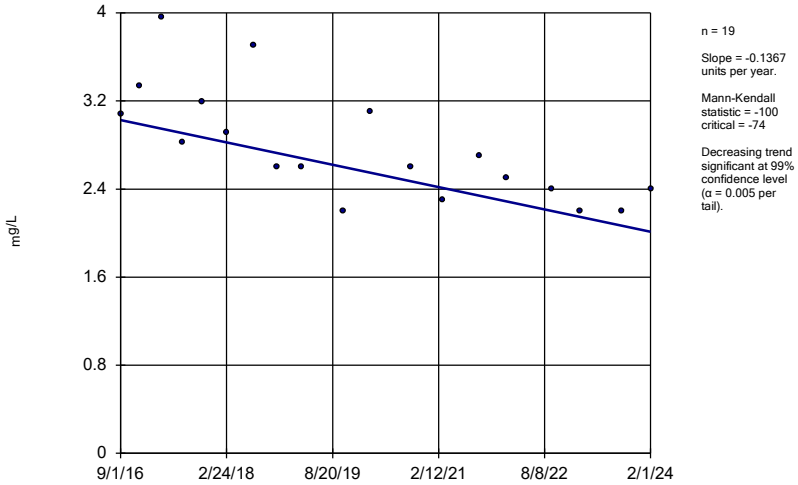
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 19

Slope = -0.1367 units per year.

Mann-Kendall statistic = -100
critical = -74

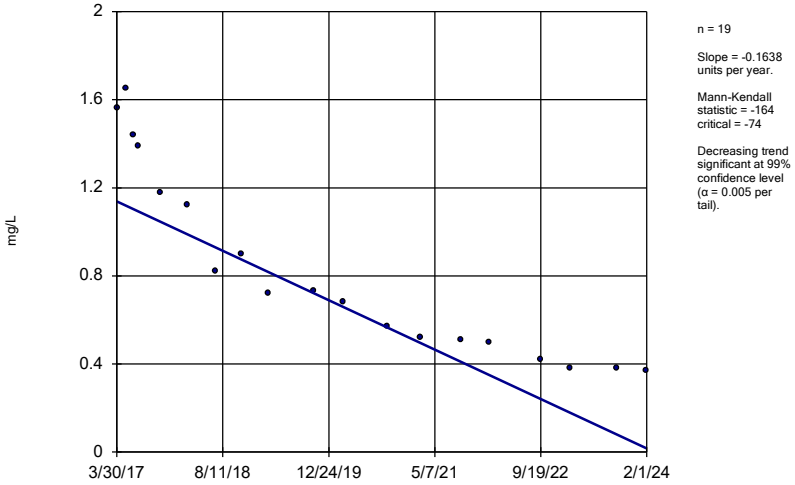
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-2



n = 19

Slope = -0.1638 units per year.

Mann-Kendall statistic = -164
critical = -74

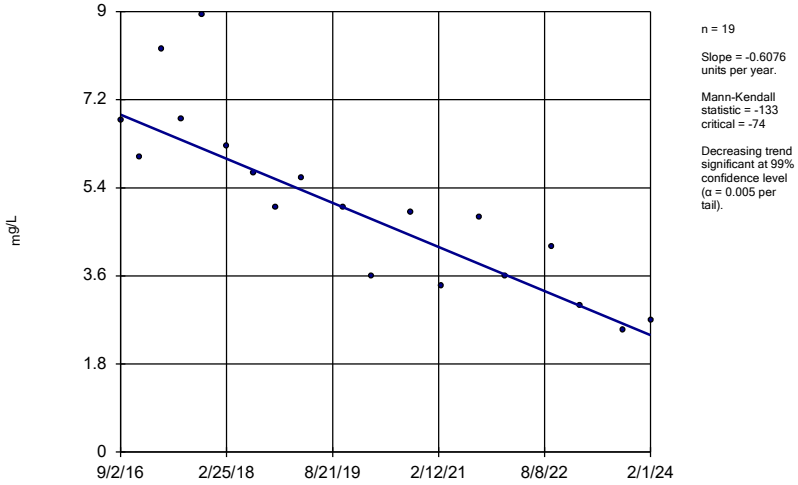
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 19

Slope = -0.6076 units per year.

Mann-Kendall statistic = -133
critical = -74

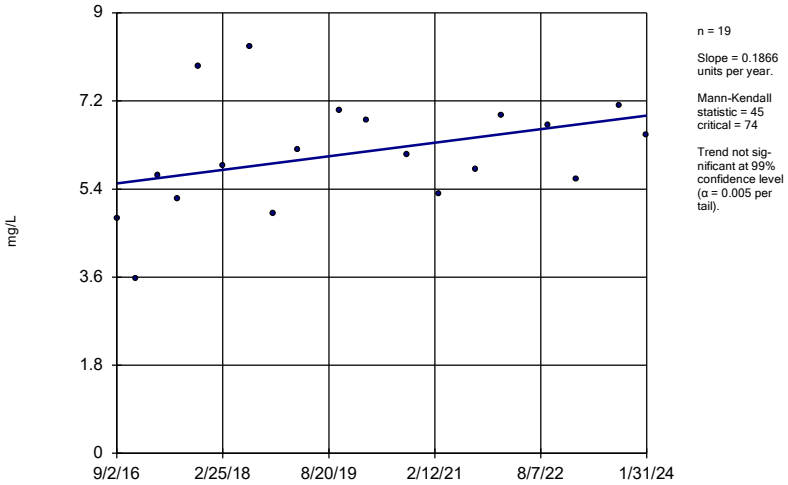
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-21



n = 19

Slope = 0.1866 units per year.

Mann-Kendall statistic = 45 critical = 74

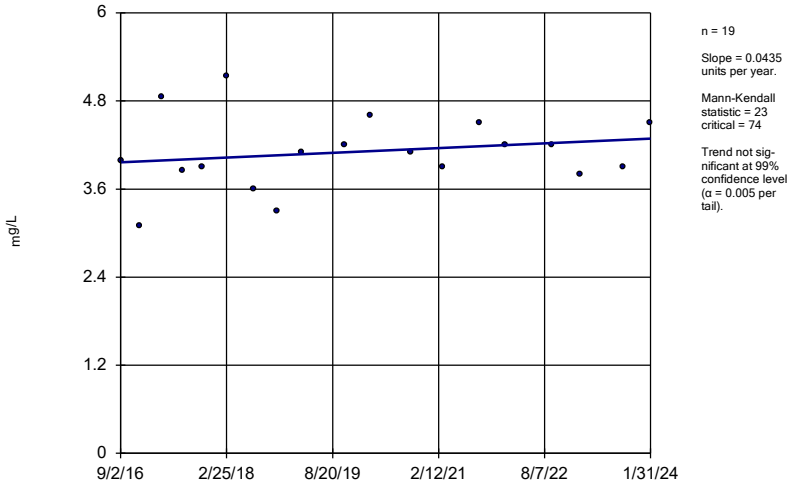
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-22



n = 19

Slope = 0.0435 units per year.

Mann-Kendall statistic = 23 critical = 74

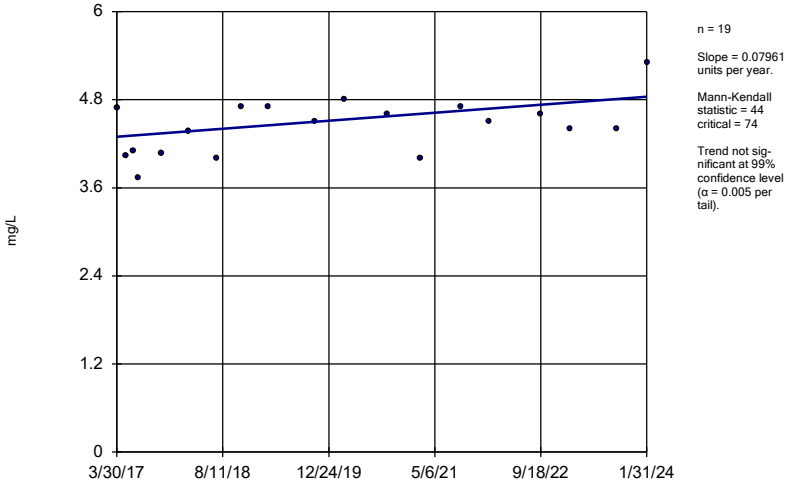
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:21 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-23



n = 19

Slope = 0.07961 units per year.

Mann-Kendall statistic = 44 critical = 74

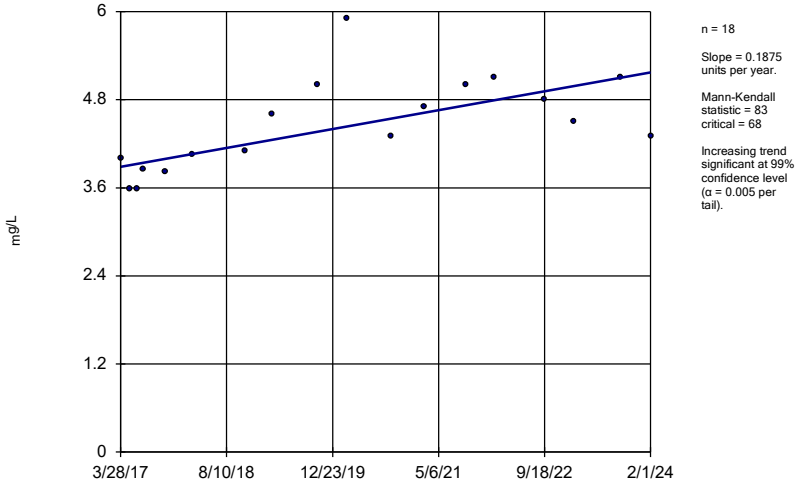
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-4



n = 18

Slope = 0.1875 units per year.

Mann-Kendall statistic = 83 critical = 68

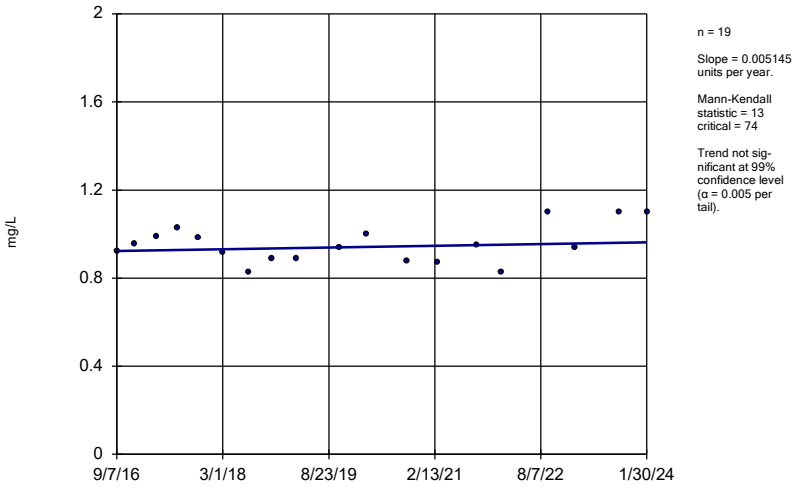
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-42



n = 19

Slope = 0.005145 units per year.

Mann-Kendall statistic = 13
critical = 74

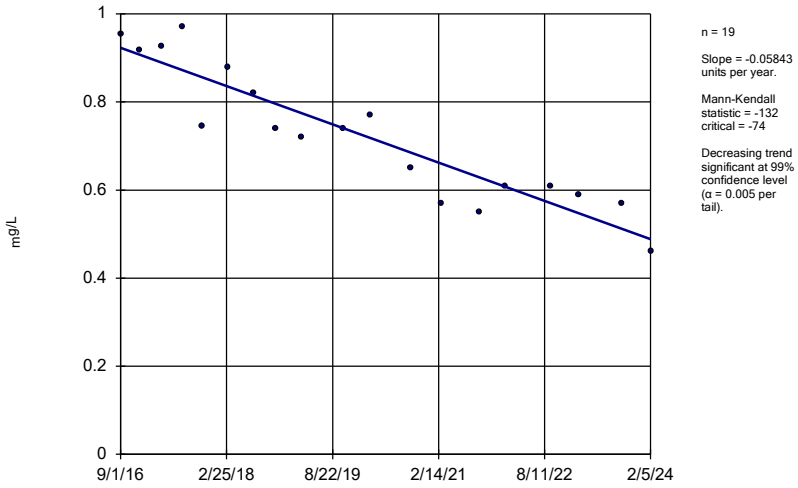
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 19

Slope = -0.05843 units per year.

Mann-Kendall statistic = -132
critical = -74

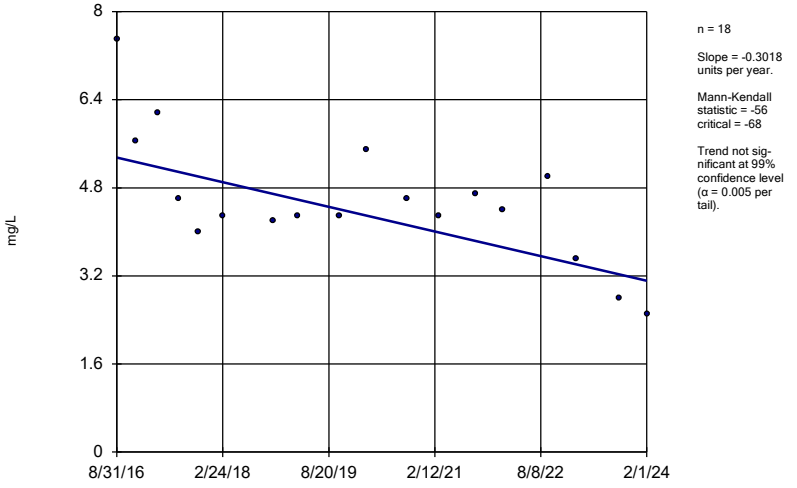
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 18

Slope = -0.3018 units per year.

Mann-Kendall statistic = -56
critical = -68

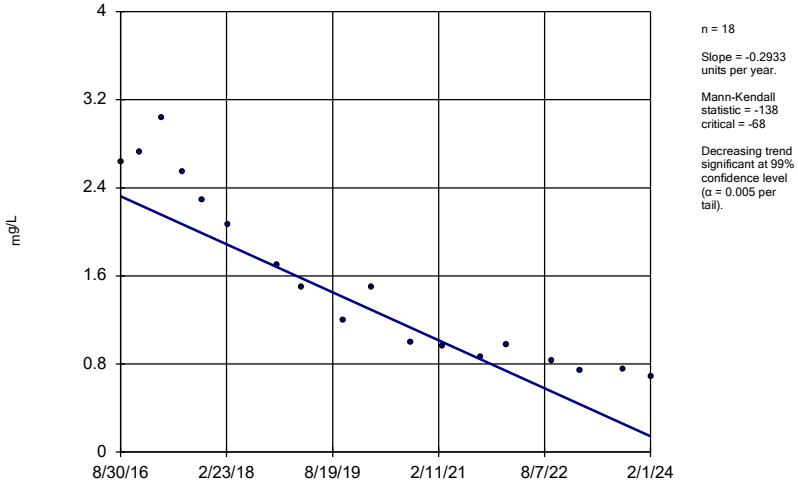
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-8



n = 18

Slope = -0.2933 units per year.

Mann-Kendall statistic = -138
critical = -68

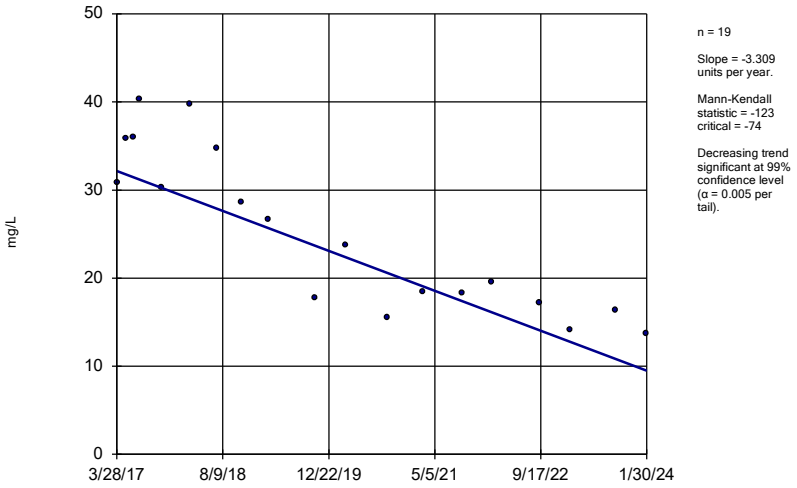
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -3.309 units per year.

Mann-Kendall statistic = -123
critical = -74

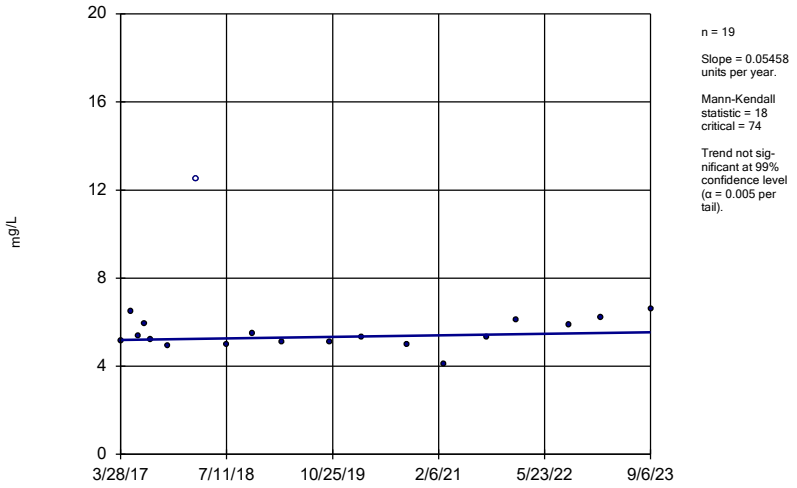
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0.05458 units per year.

Mann-Kendall statistic = 18
critical = 74

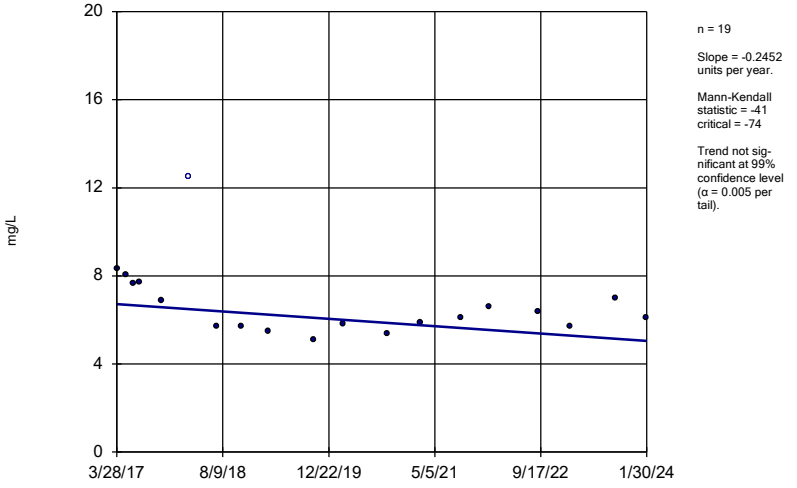
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 19

Slope = -0.2452 units per year.

Mann-Kendall statistic = -41
critical = -74

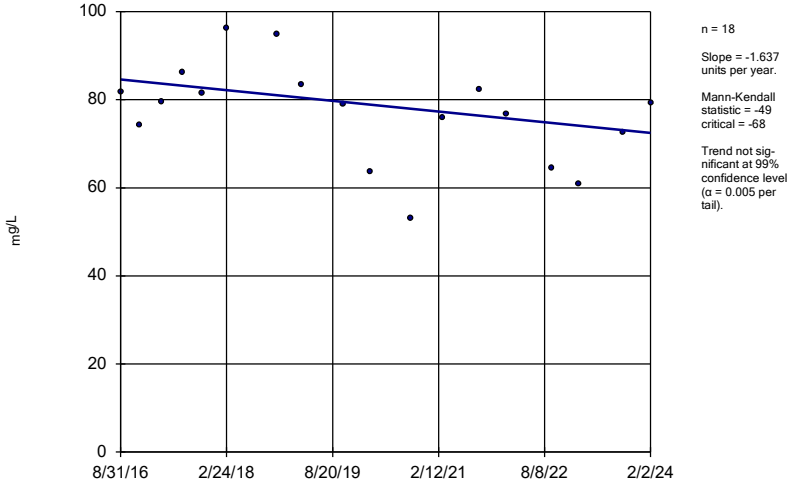
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 18

Slope = -1.637 units per year.

Mann-Kendall statistic = -49
critical = -68

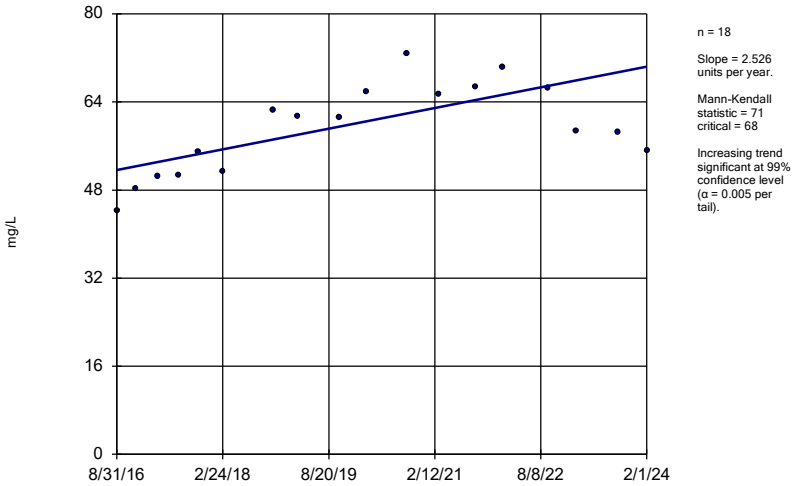
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-11



n = 18

Slope = 2.526 units per year.

Mann-Kendall statistic = 71 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

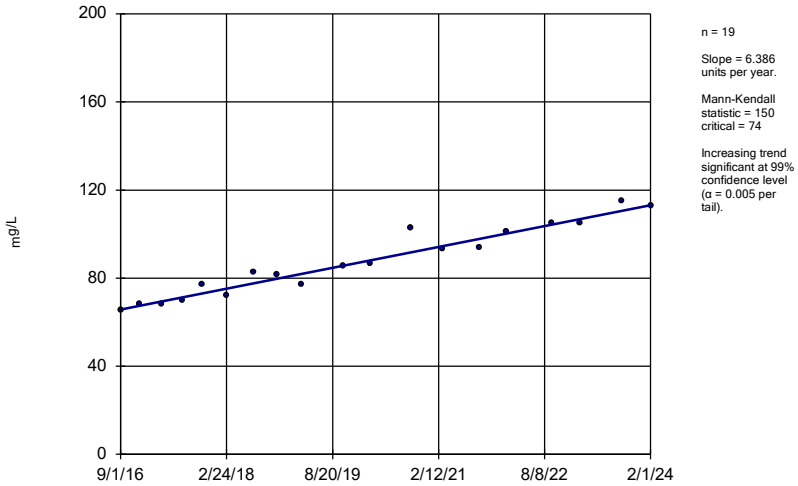
Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 19

Slope = 6.386 units per year.

Mann-Kendall statistic = 150 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

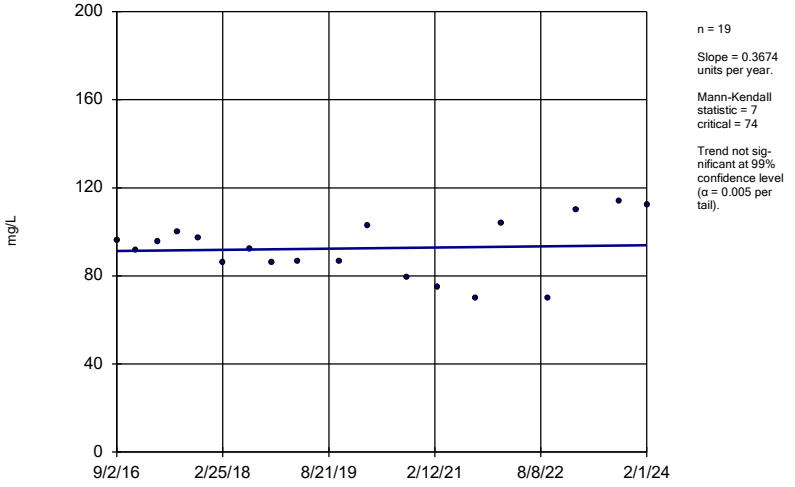
Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 19

Slope = 0.3674 units per year.

Mann-Kendall statistic = 7 critical = 74

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

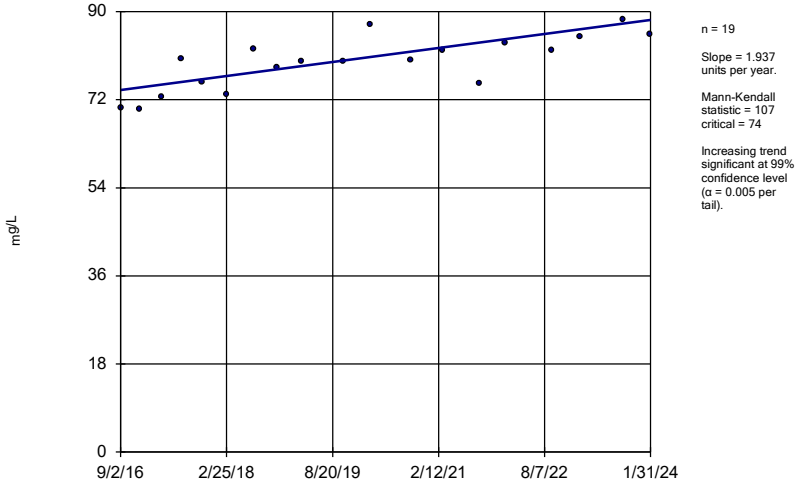
Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-21



n = 19

Slope = 1.937 units per year.

Mann-Kendall statistic = 107 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

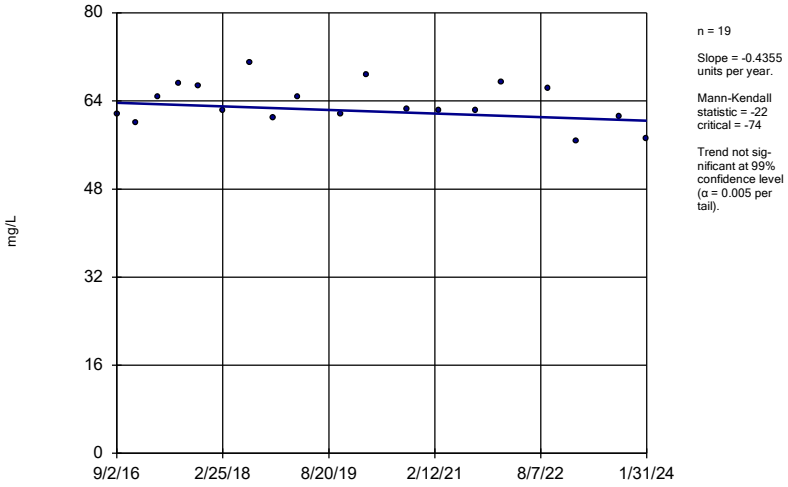
Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-22



n = 19

Slope = -0.4355 units per year.

Mann-Kendall statistic = -22
critical = -74

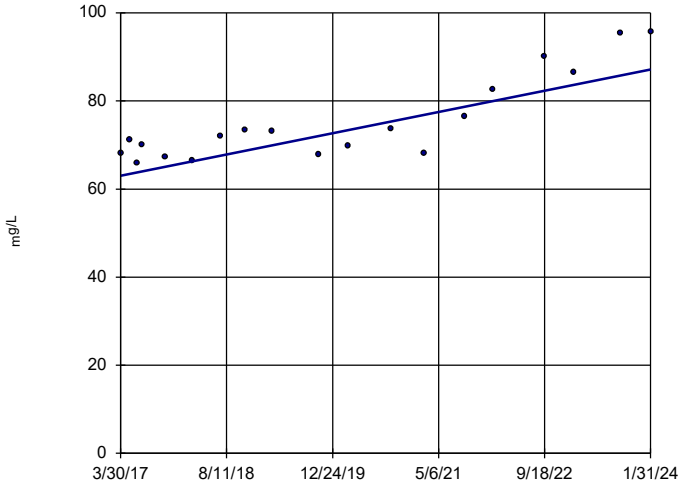
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-23



n = 19

Slope = 3.525 units per year.

Mann-Kendall statistic = 110
critical = 74

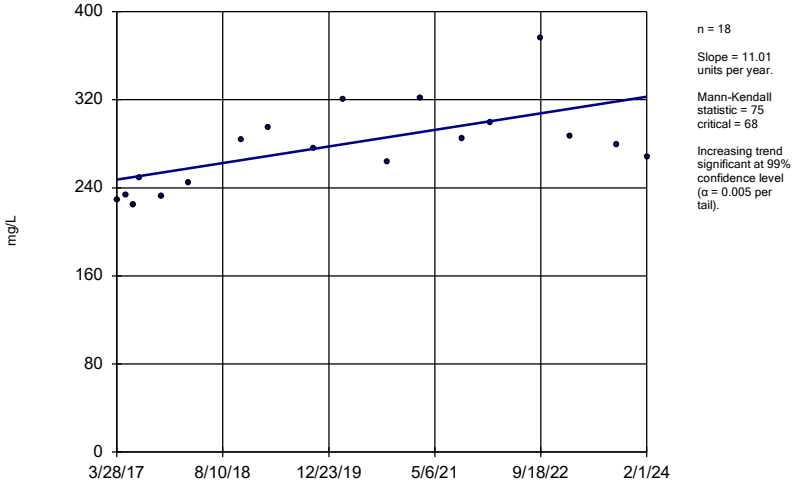
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-4



n = 18

Slope = 11.01 units per year.

Mann-Kendall statistic = 75
critical = 68

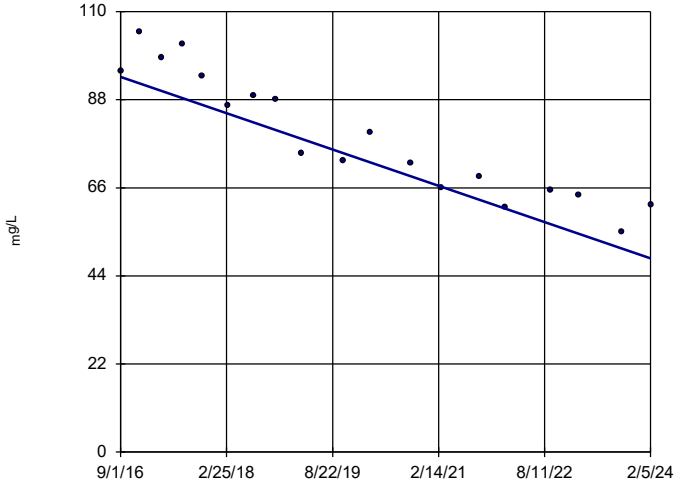
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 19

Slope = -6.099 units per year.

Mann-Kendall statistic = -145
critical = -74

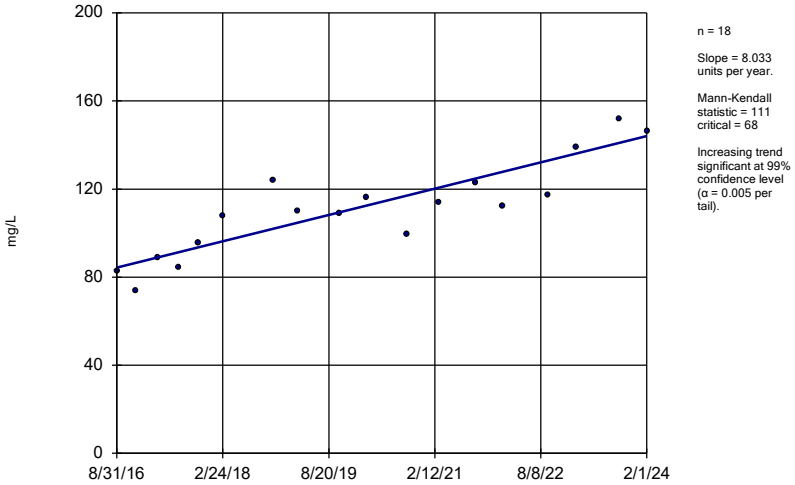
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 18

Slope = 8.033 units per year.

Mann-Kendall statistic = 111
critical = 68

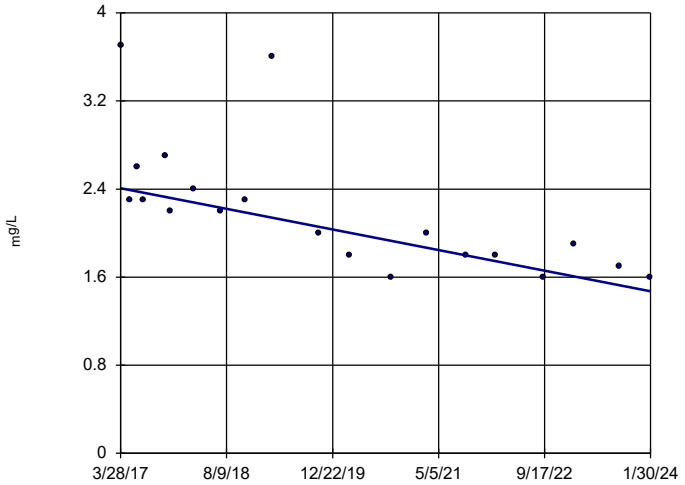
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.1368 units per year.

Mann-Kendall statistic = -123
critical = -81

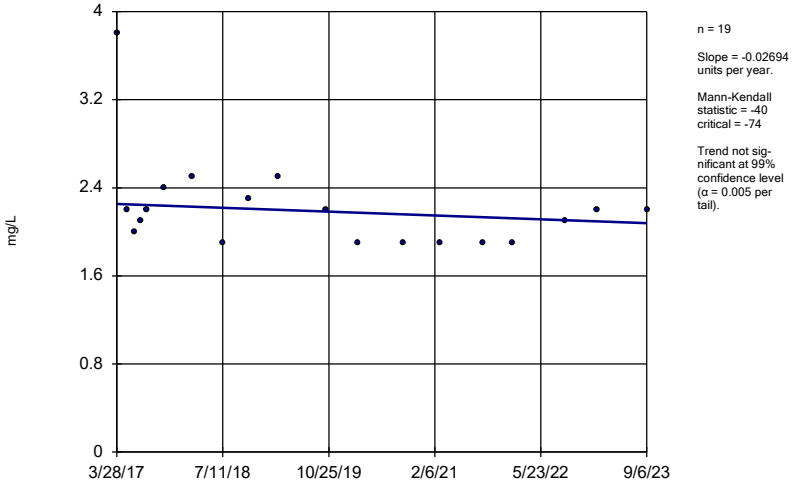
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = -0.02694 units per year.

Mann-Kendall statistic = -40
critical = -74

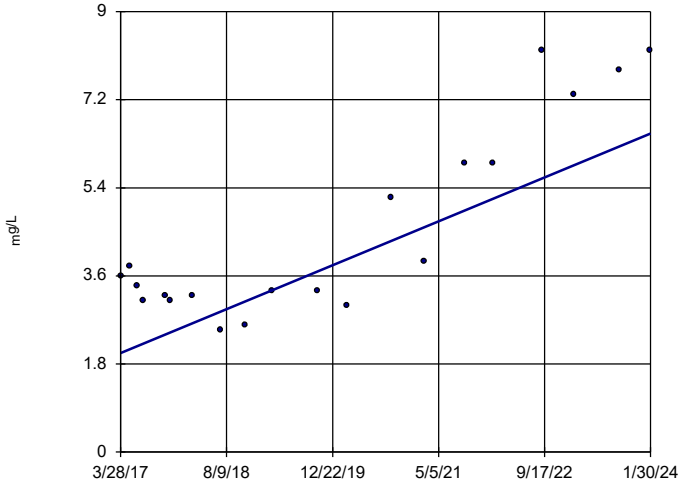
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = 0.6551 units per year.

Mann-Kendall statistic = 91
critical = 81

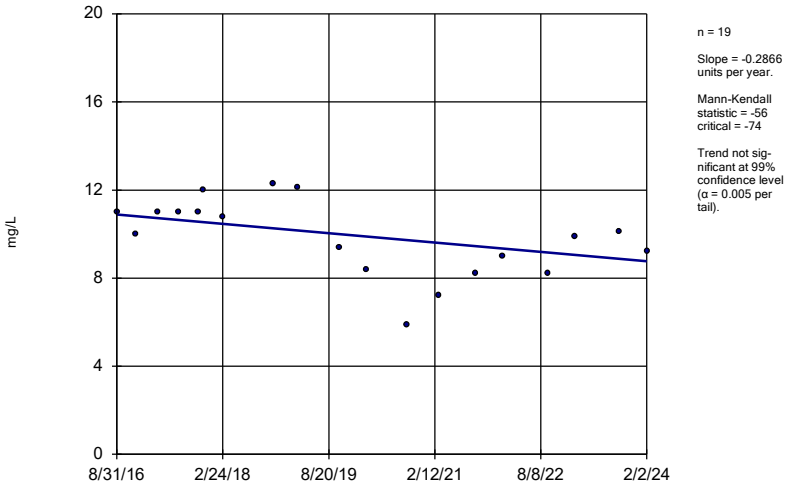
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 19

Slope = -0.2866 units per year.

Mann-Kendall statistic = -56
critical = -74

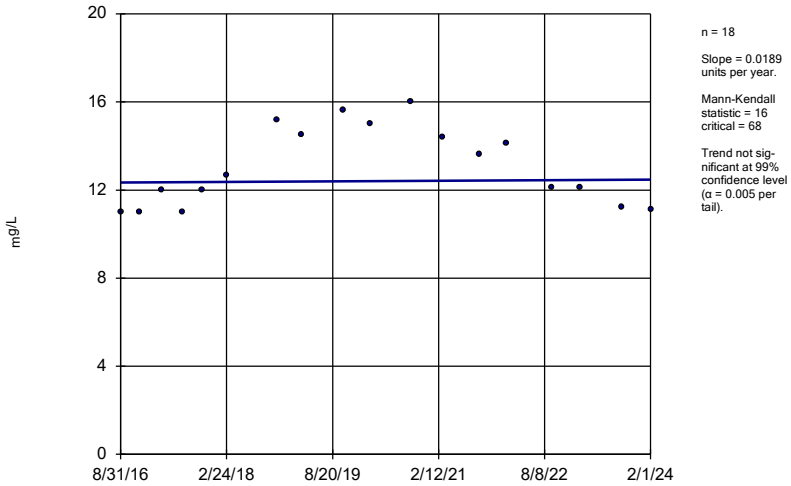
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-11



n = 18

Slope = 0.0189 units per year.

Mann-Kendall statistic = 16
critical = 68

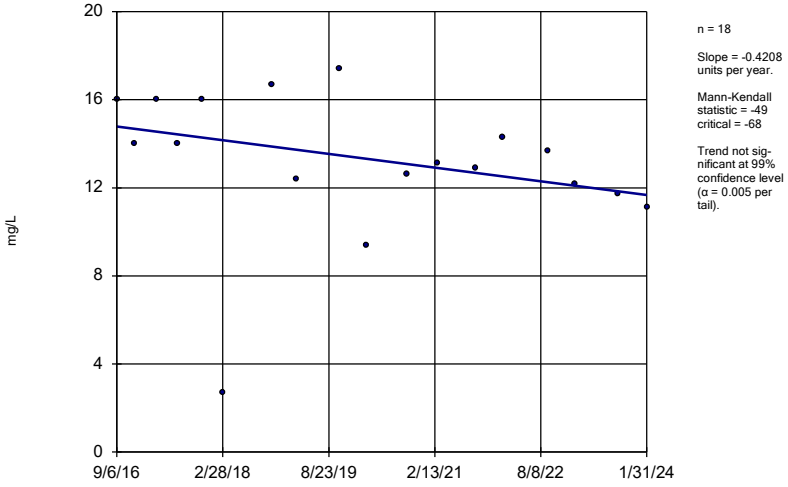
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-13



n = 18

Slope = -0.4208 units per year.

Mann-Kendall statistic = -49
critical = -68

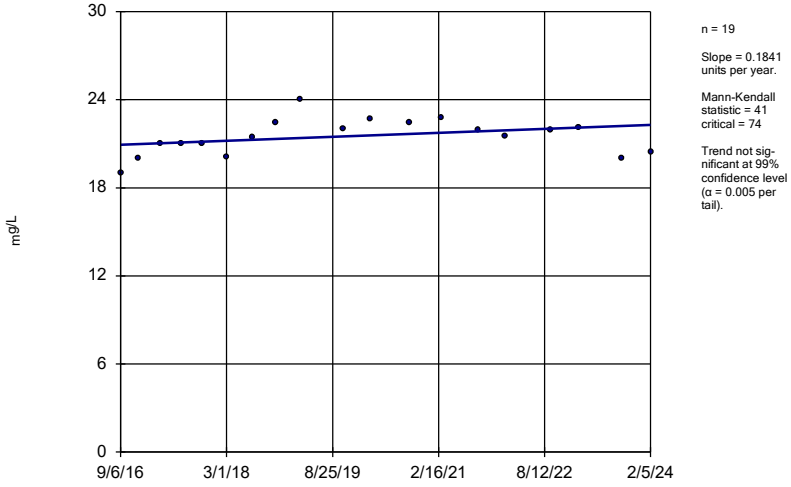
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-15



n = 19

Slope = 0.1841 units per year.

Mann-Kendall statistic = 41
critical = 74

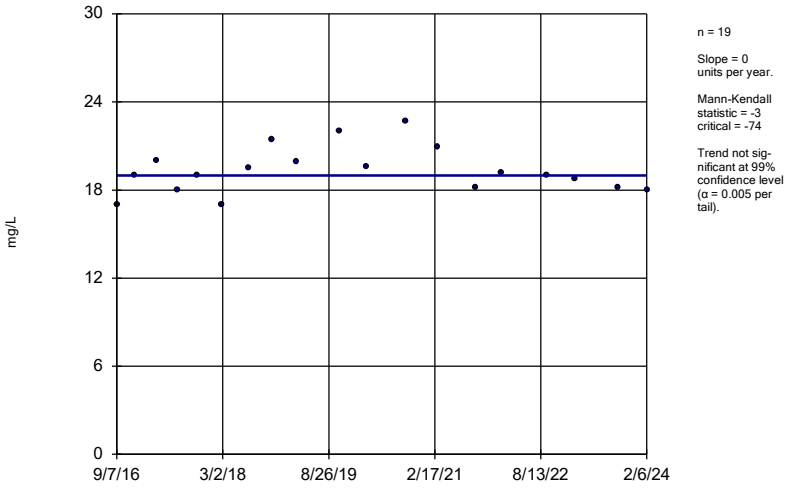
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-17



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

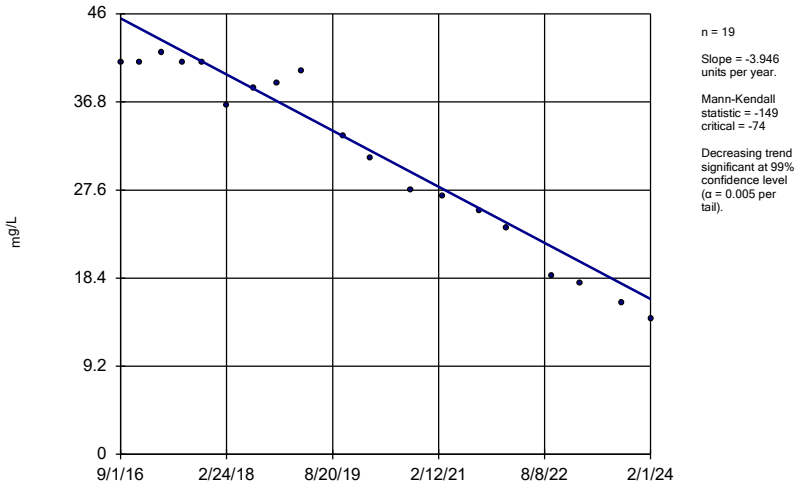
Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 19

Slope = -3.946 units per year.

Mann-Kendall statistic = -149 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

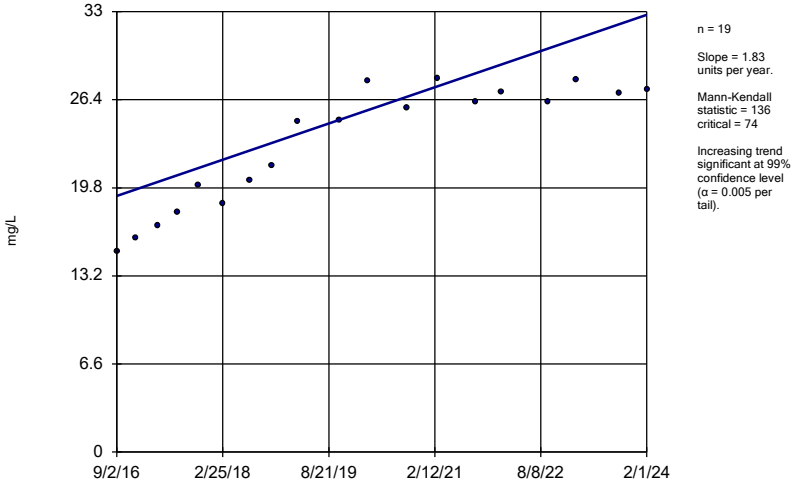
Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 19

Slope = 1.83 units per year.

Mann-Kendall statistic = 136 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

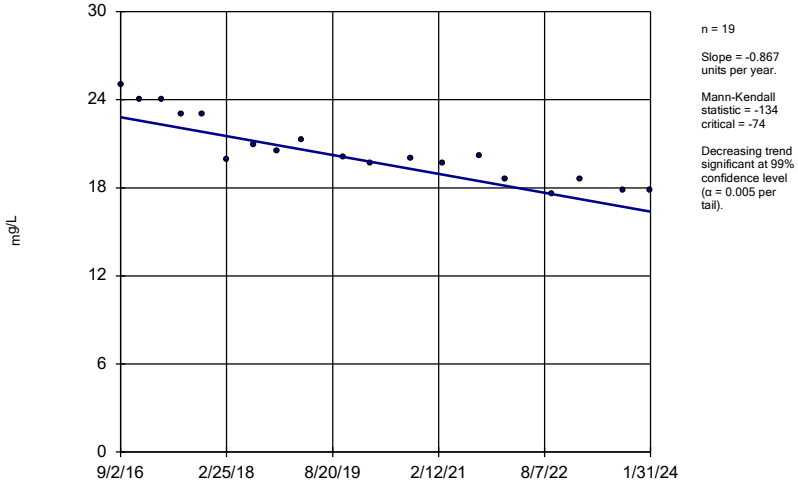
Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-21



n = 19

Slope = -0.867 units per year.

Mann-Kendall statistic = -134 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

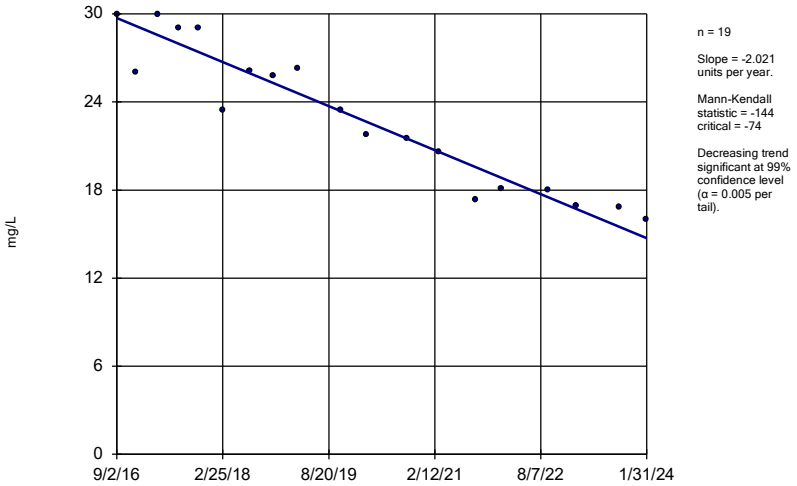
Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-22



n = 19

Slope = -2.021 units per year.

Mann-Kendall statistic = -144
critical = -74

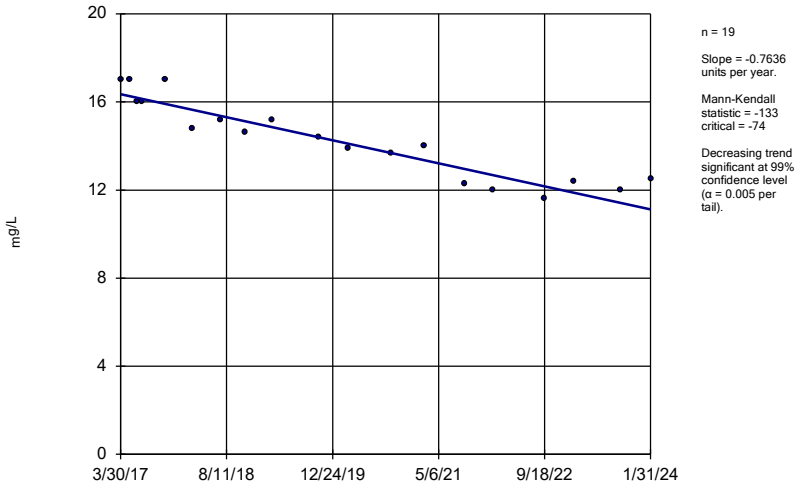
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-23



n = 19

Slope = -0.7636 units per year.

Mann-Kendall statistic = -133
critical = -74

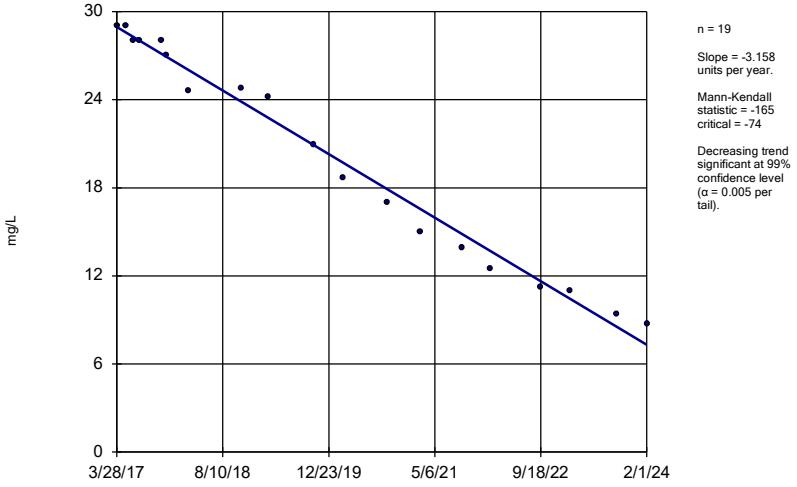
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-4



n = 19

Slope = -3.158 units per year.

Mann-Kendall statistic = -165
critical = -74

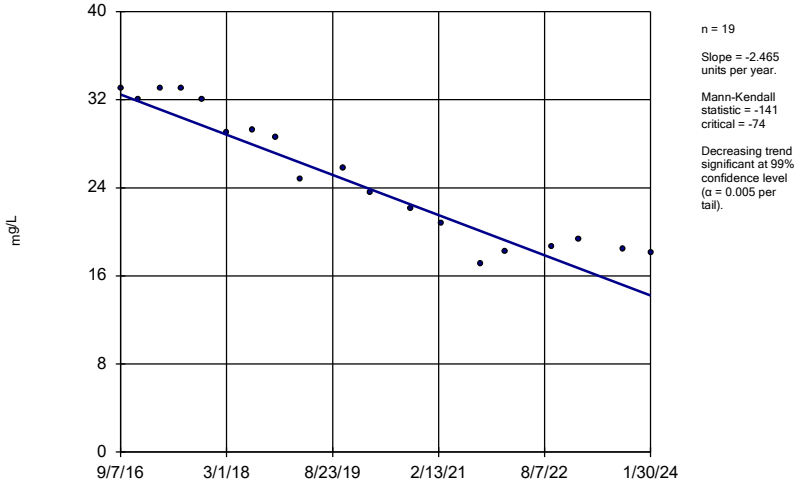
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-42



n = 19

Slope = -2.465 units per year.

Mann-Kendall statistic = -141
critical = -74

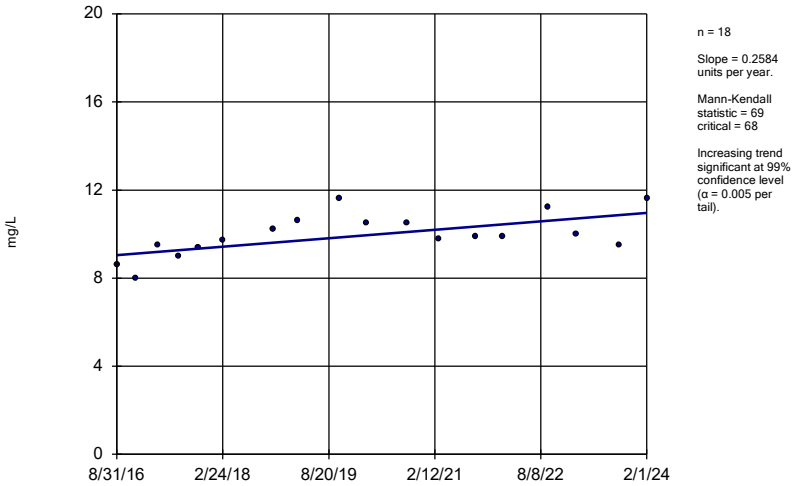
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 18

Slope = 0.2584 units per year.

Mann-Kendall statistic = 69
critical = 68

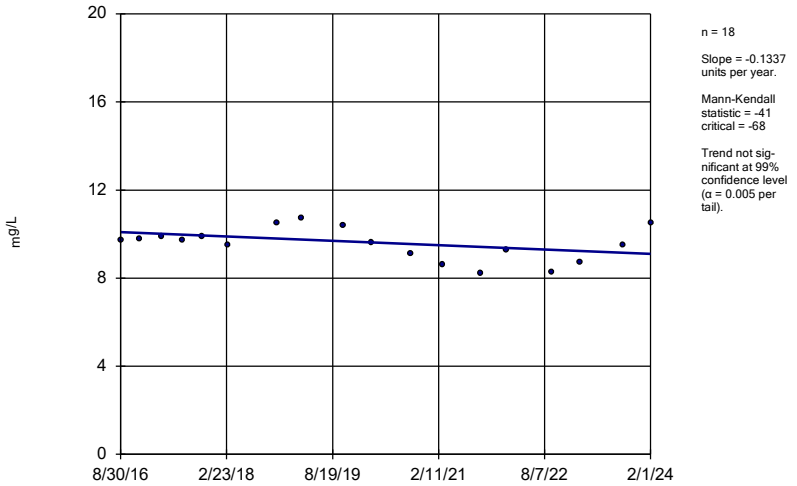
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-8



n = 18

Slope = -0.1337 units per year.

Mann-Kendall statistic = -41
critical = -68

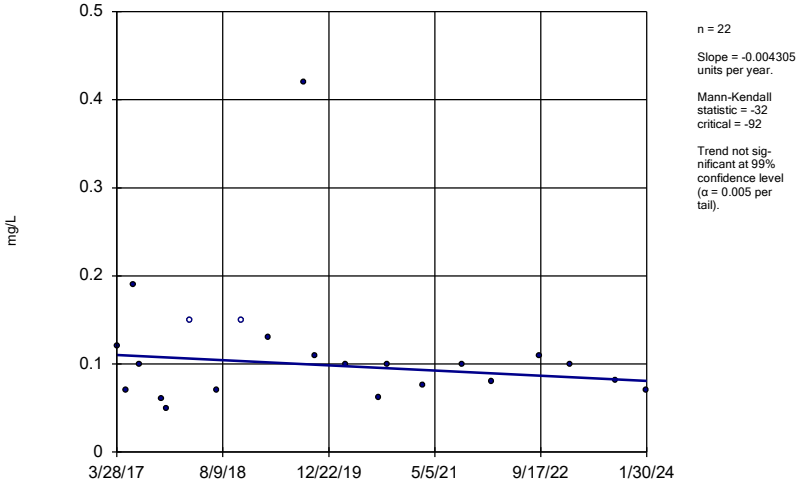
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 22

Slope = -0.004305 units per year.

Mann-Kendall statistic = -32
critical = -92

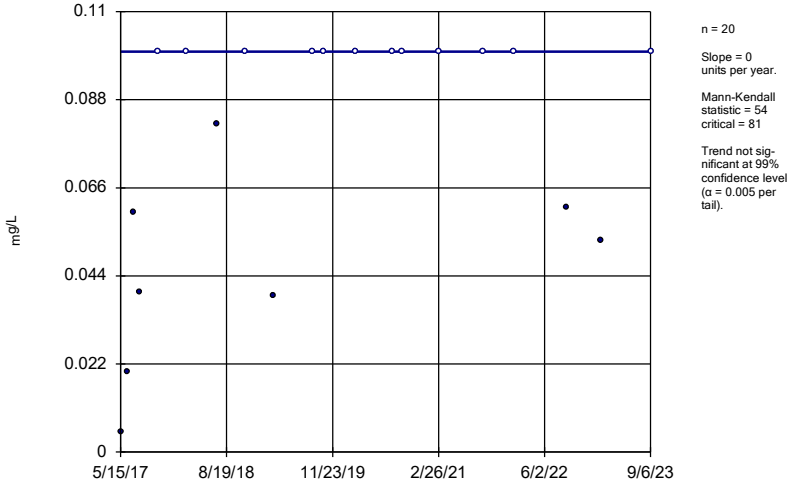
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 54
critical = 81

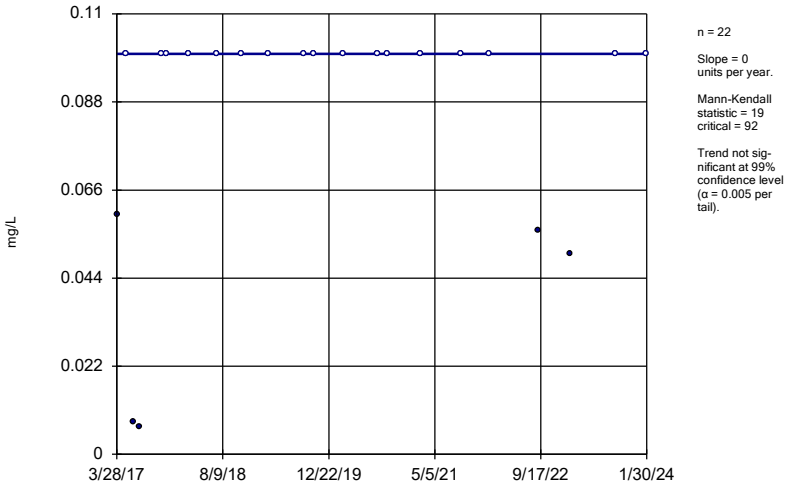
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 19
critical = 92

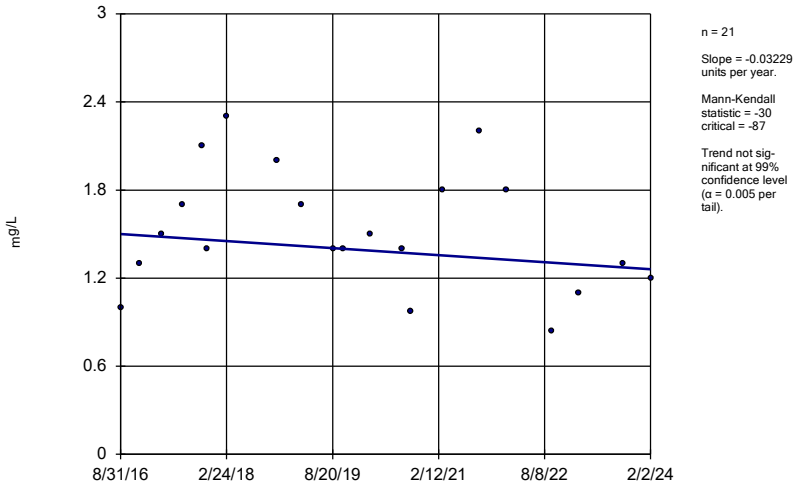
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 21

Slope = -0.03229 units per year.

Mann-Kendall statistic = -30
critical = -87

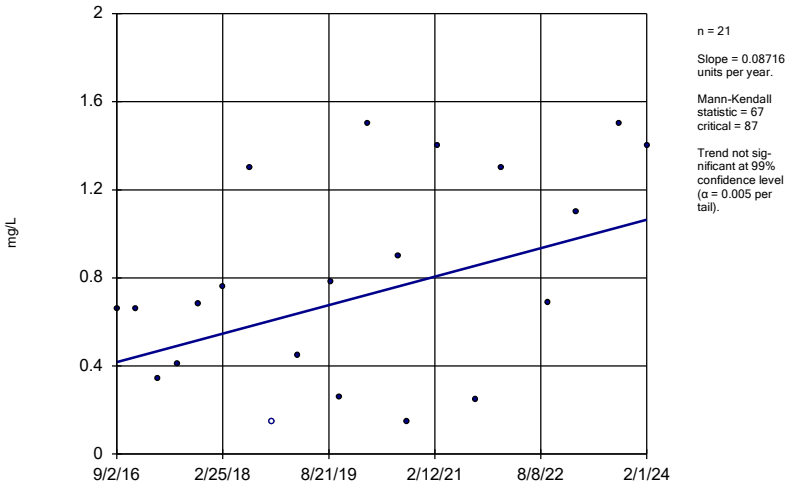
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-20



n = 21

Slope = 0.08716 units per year.

Mann-Kendall statistic = 67
critical = 87

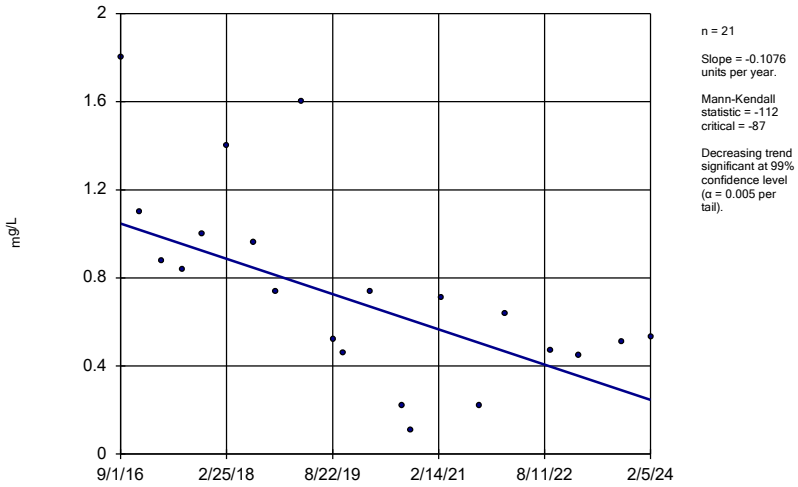
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-47



n = 21

Slope = -0.1076 units per year.

Mann-Kendall statistic = -112
critical = -87

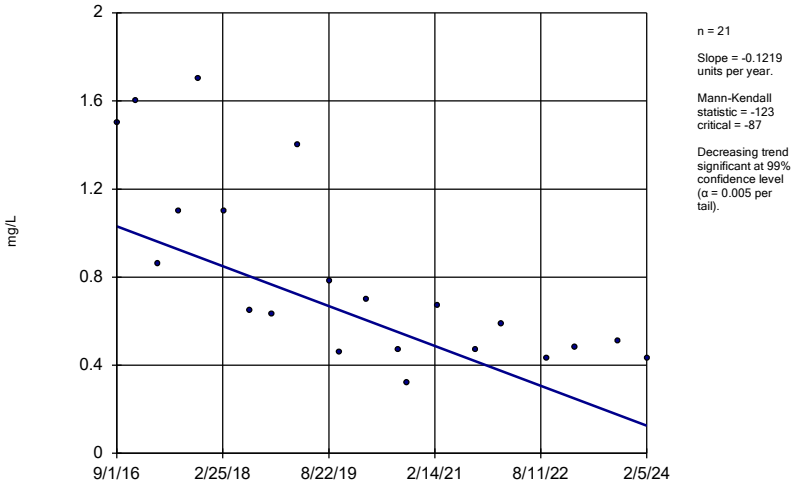
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 21

Slope = -0.1219 units per year.

Mann-Kendall statistic = -123 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

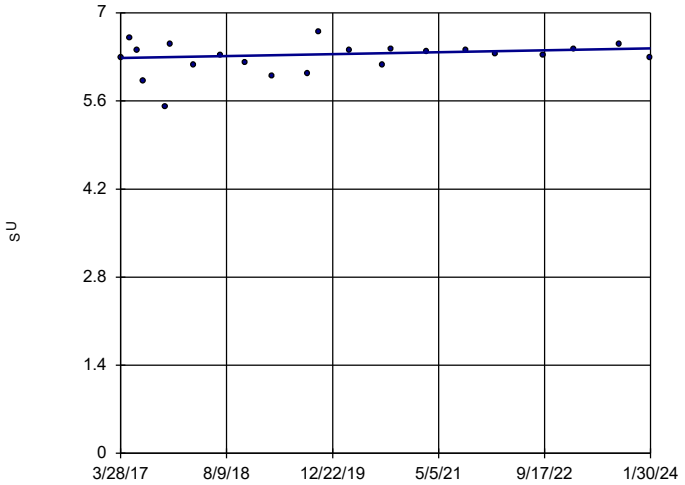
Constituent: Fluoride Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 22

Slope = 0.02221 units per year.

Mann-Kendall statistic = 32 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

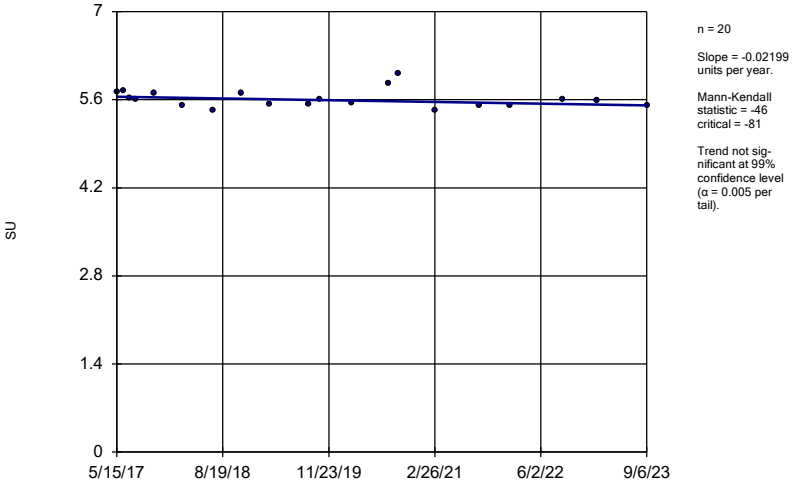
Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = -0.02199 units per year.

Mann-Kendall statistic = -46 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

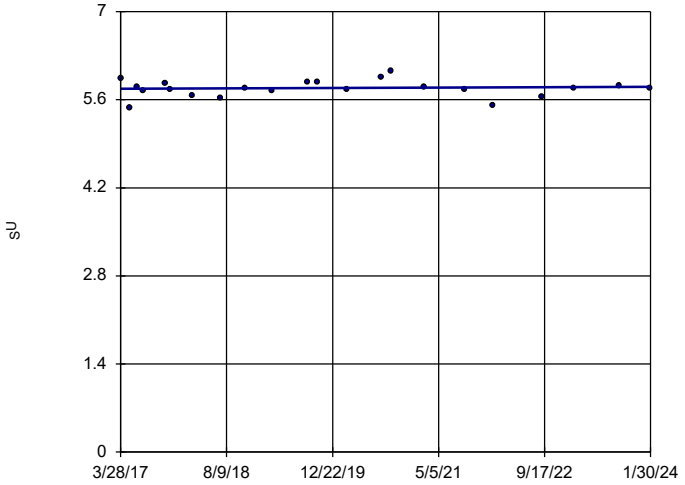
Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 22

Slope = 0.004314 units per year.

Mann-Kendall statistic = 12 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

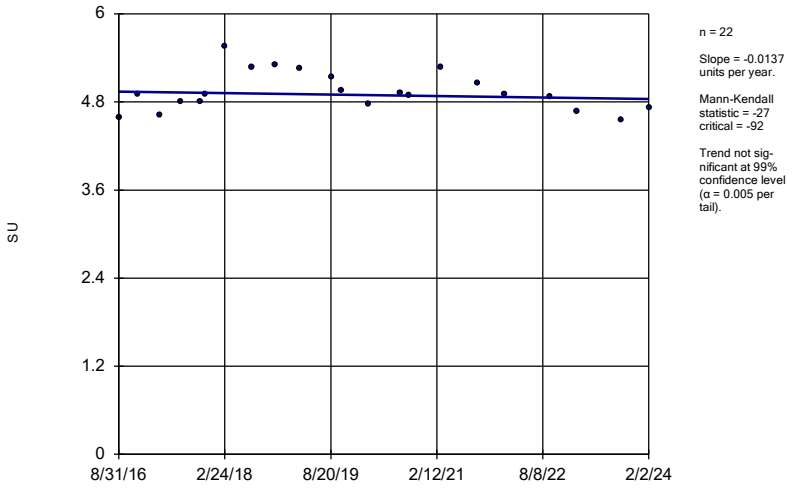
Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 22

Slope = -0.0137 units per year.

Mann-Kendall statistic = -27 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

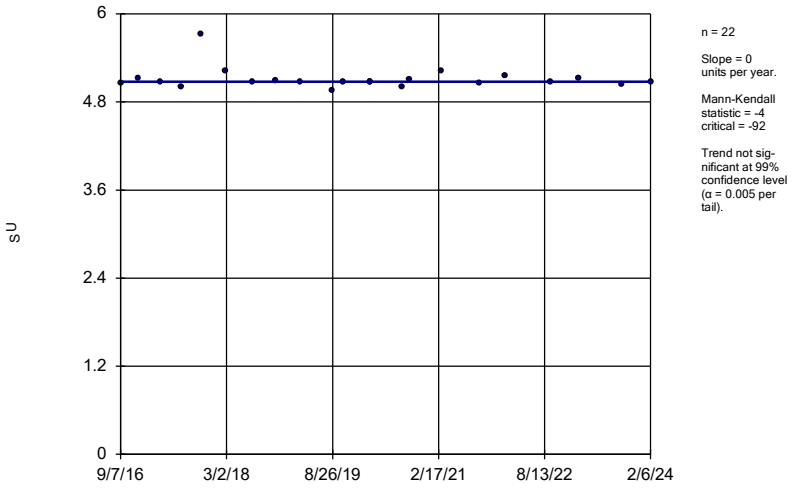
Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-17



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

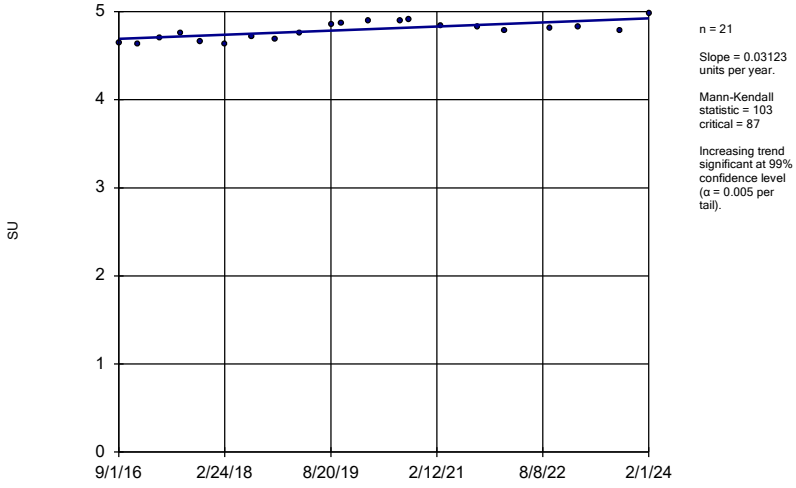
Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 21

Slope = 0.03123 units per year.

Mann-Kendall statistic = 103 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

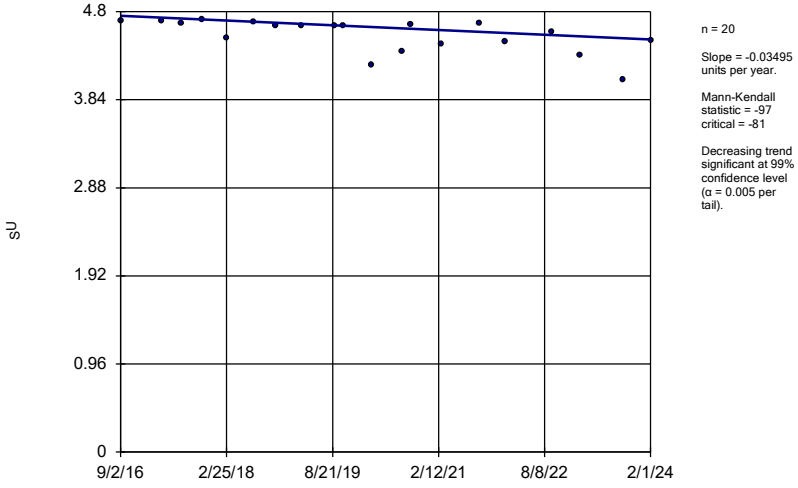
Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 20

Slope = -0.03495 units per year.

Mann-Kendall statistic = -97 critical = -81

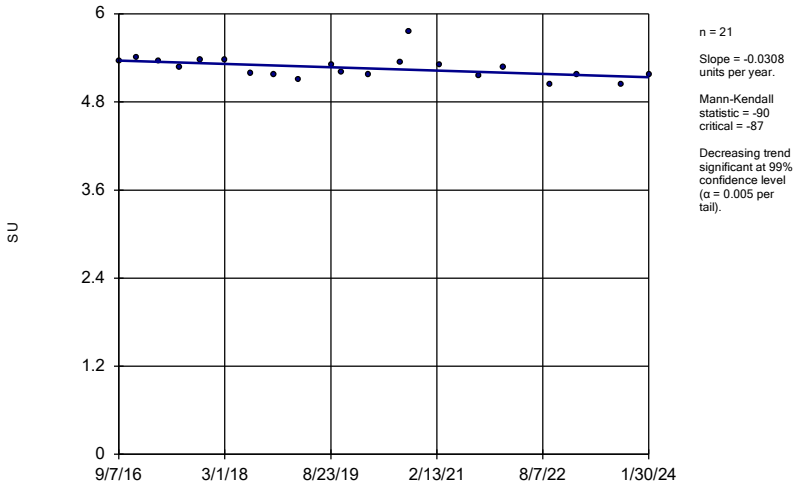
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-42



n = 21

Slope = -0.0308 units per year.

Mann-Kendall statistic = -90
critical = -87

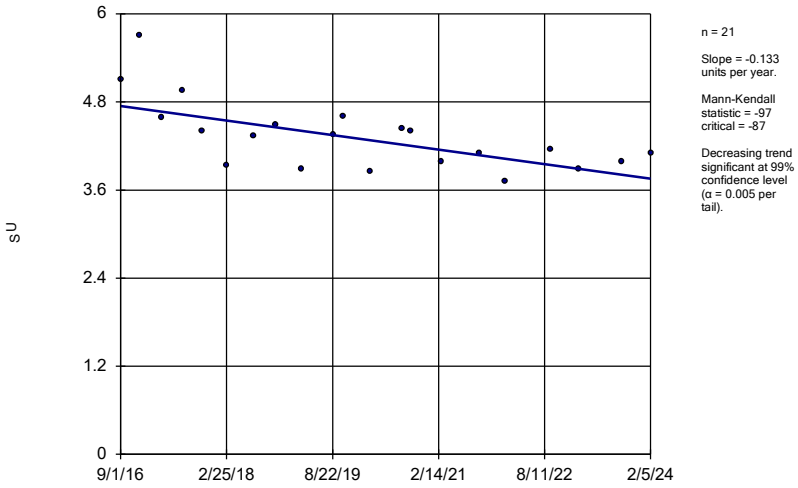
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-47



n = 21

Slope = -0.133 units per year.

Mann-Kendall statistic = -97
critical = -87

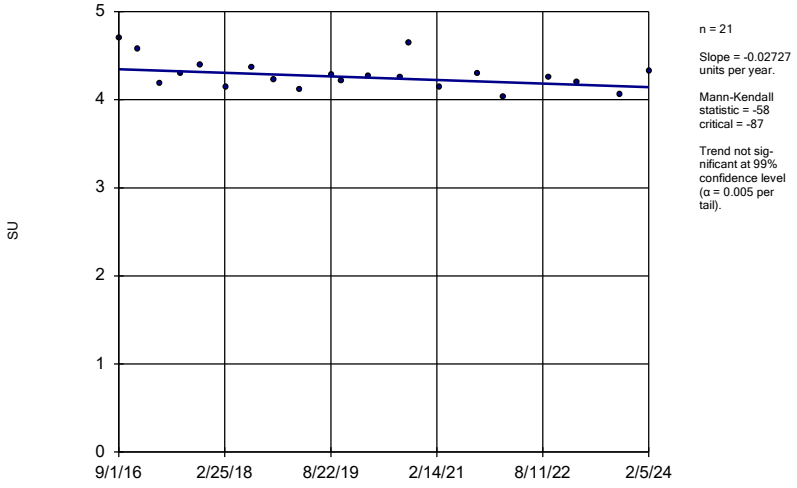
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 21

Slope = -0.02727 units per year.

Mann-Kendall statistic = -58
critical = -87

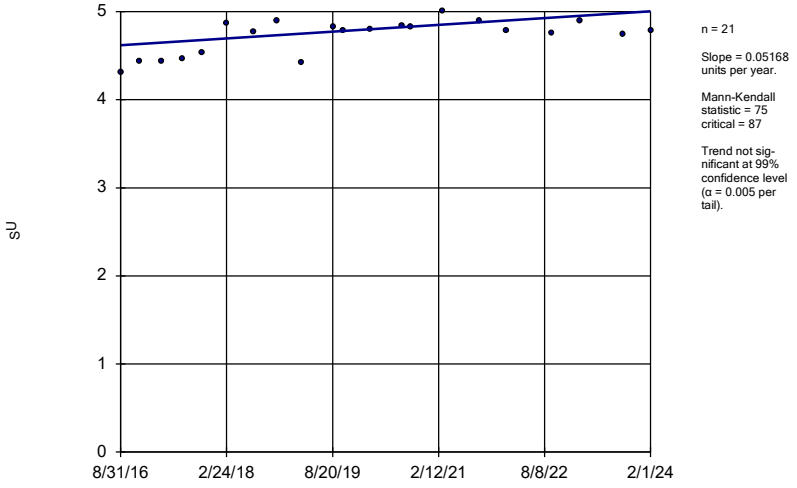
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 21

Slope = 0.05168 units per year.

Mann-Kendall statistic = 75
critical = 87

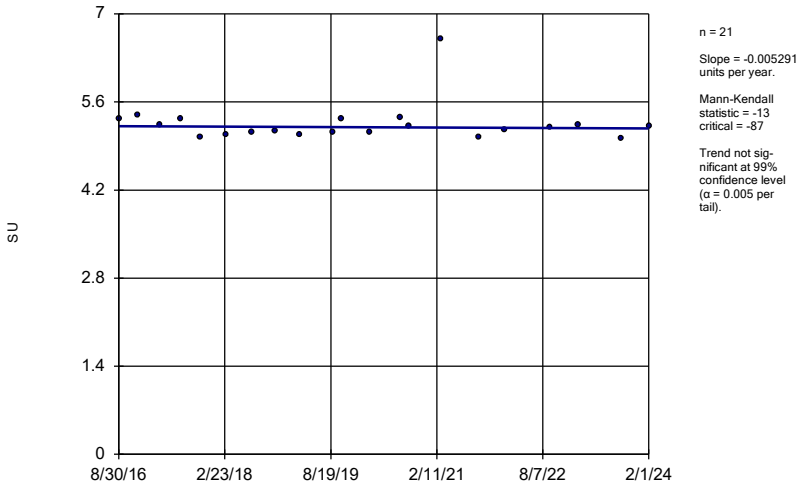
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-8



n = 21

Slope = -0.005291 units per year.

Mann-Kendall statistic = -13
critical = -87

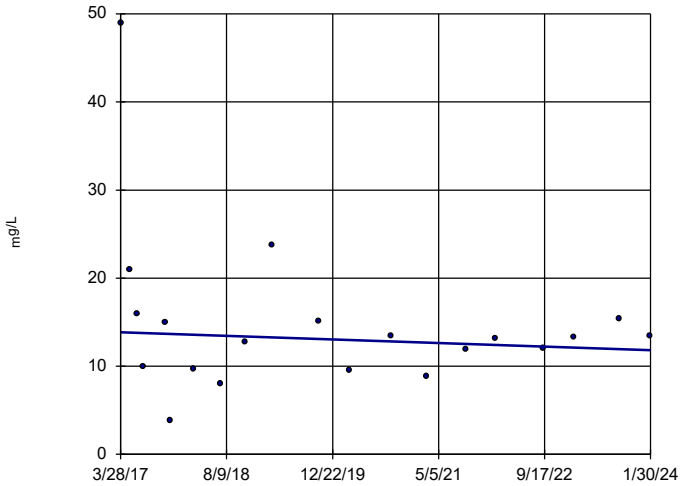
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.2974 units per year.

Mann-Kendall statistic = -16
critical = -81

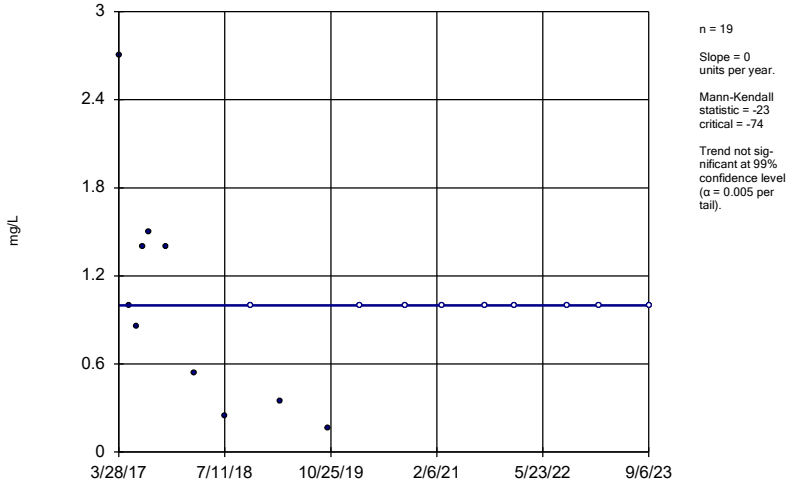
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -23
critical = -74

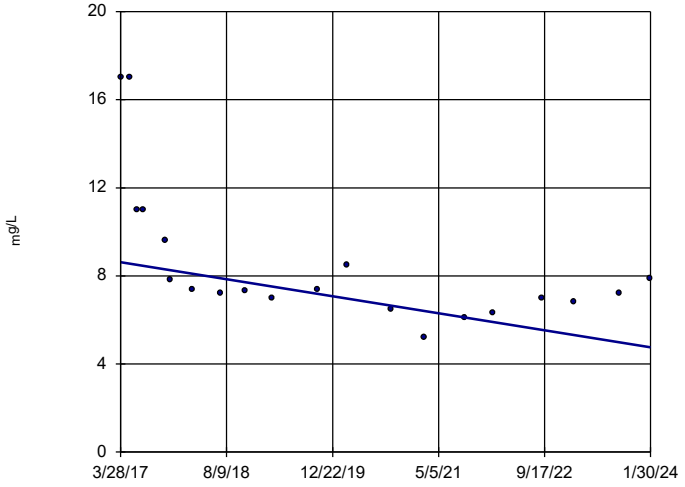
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = -0.5658 units per year.

Mann-Kendall statistic = -103
critical = -81

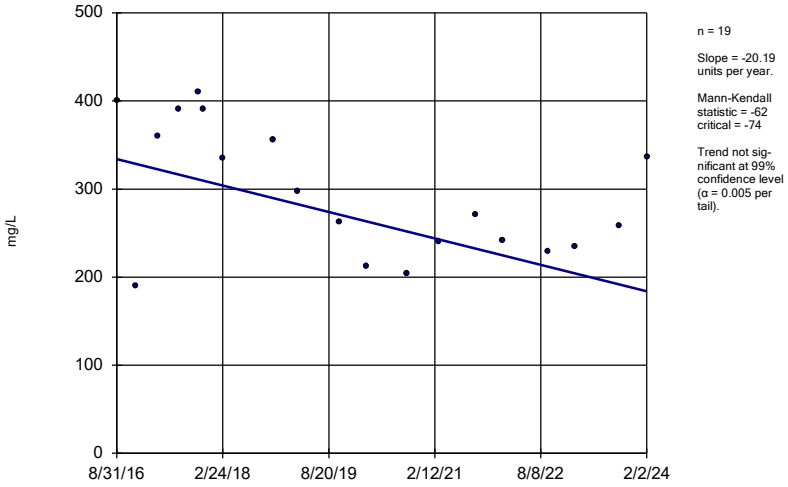
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 19

Slope = -20.19 units per year.

Mann-Kendall statistic = -62
critical = -74

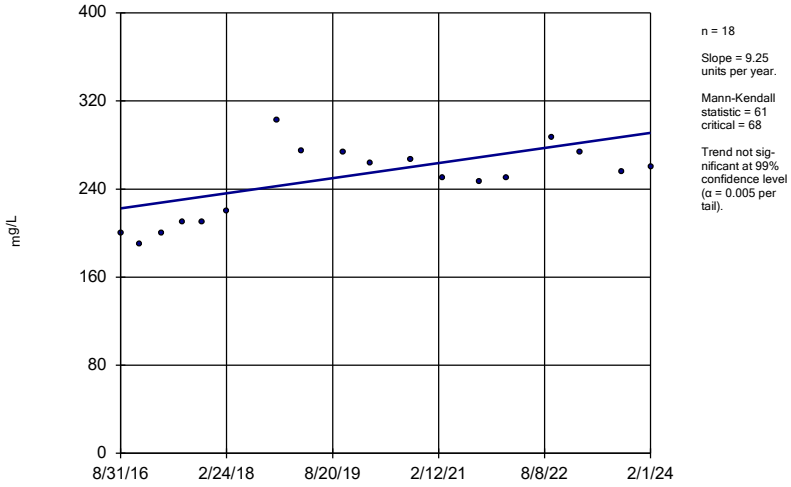
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-11



n = 18

Slope = 9.25 units per year.

Mann-Kendall statistic = 61
critical = 68

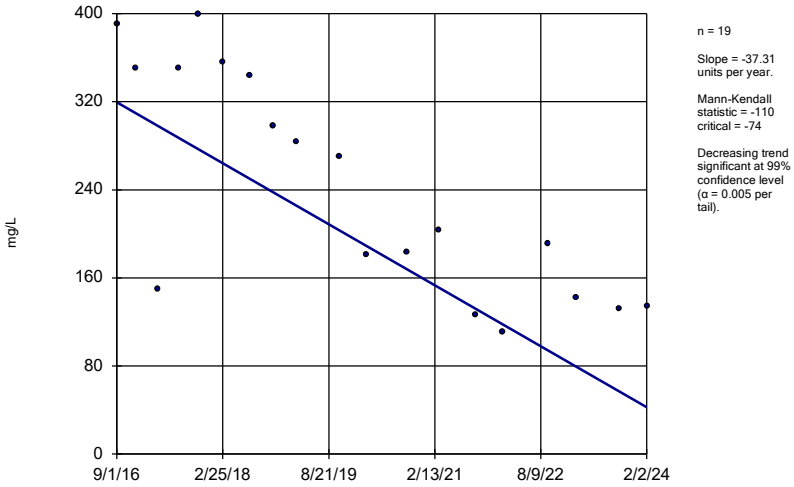
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-12



n = 19

Slope = -37.31 units per year.

Mann-Kendall statistic = -110
critical = -74

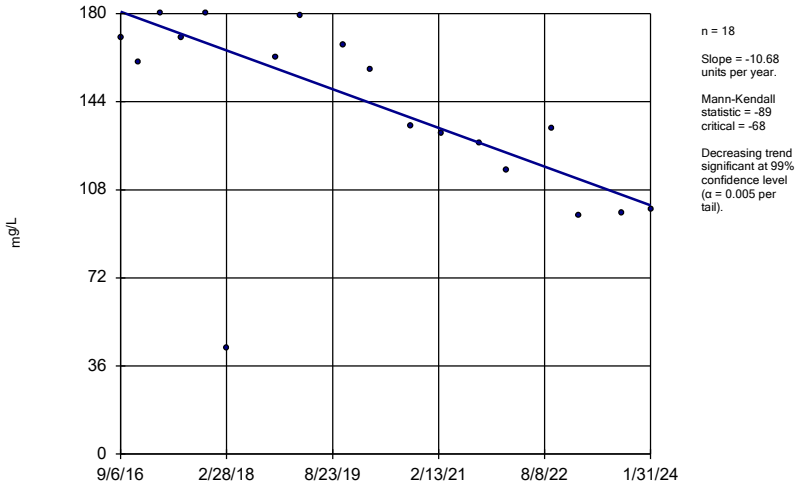
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-13



n = 18

Slope = -10.68 units per year.

Mann-Kendall statistic = -89
critical = -68

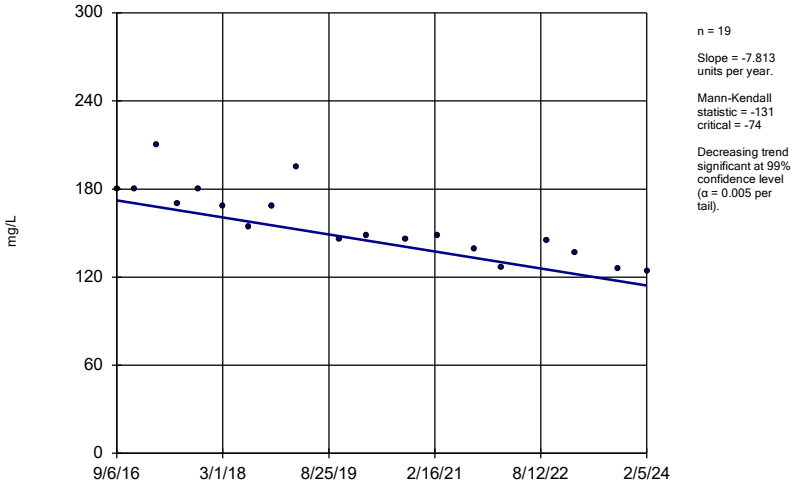
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-15



n = 19

Slope = -7.813 units per year.

Mann-Kendall statistic = -131
critical = -74

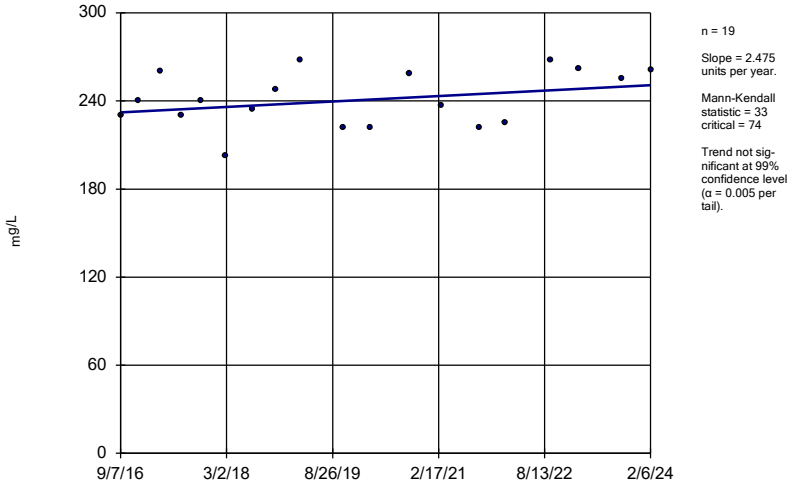
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-17



n = 19

Slope = 2.475 units per year.

Mann-Kendall statistic = 33
critical = 74

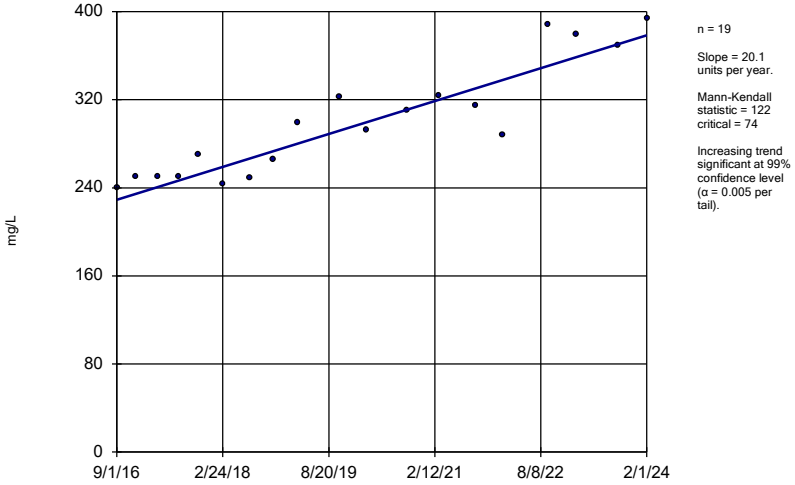
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 19

Slope = 20.1 units per year.

Mann-Kendall statistic = 122
critical = 74

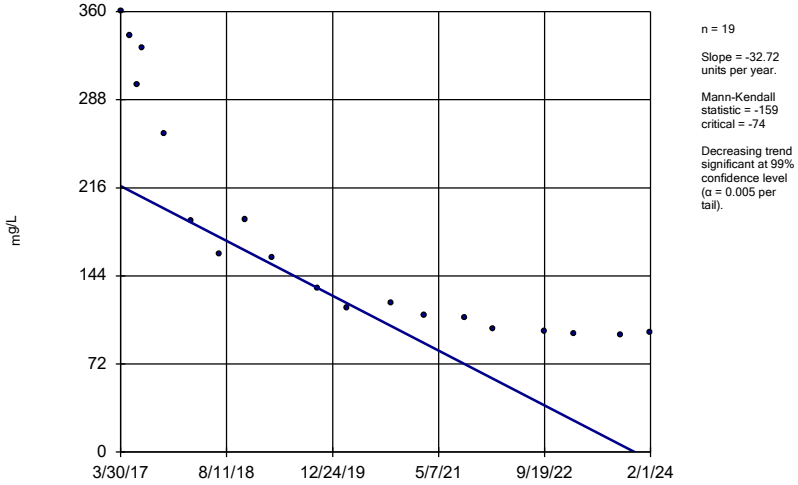
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-2



n = 19

Slope = -32.72 units per year.

Mann-Kendall statistic = -159
critical = -74

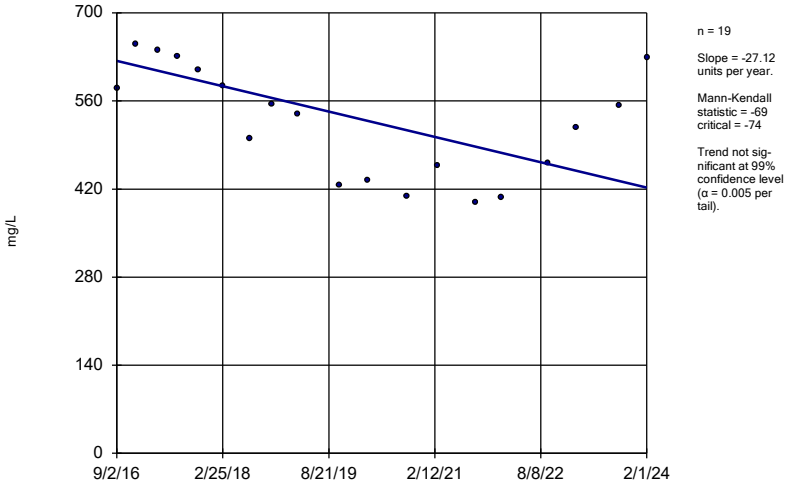
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 19

Slope = -27.12 units per year.

Mann-Kendall statistic = -69
critical = -74

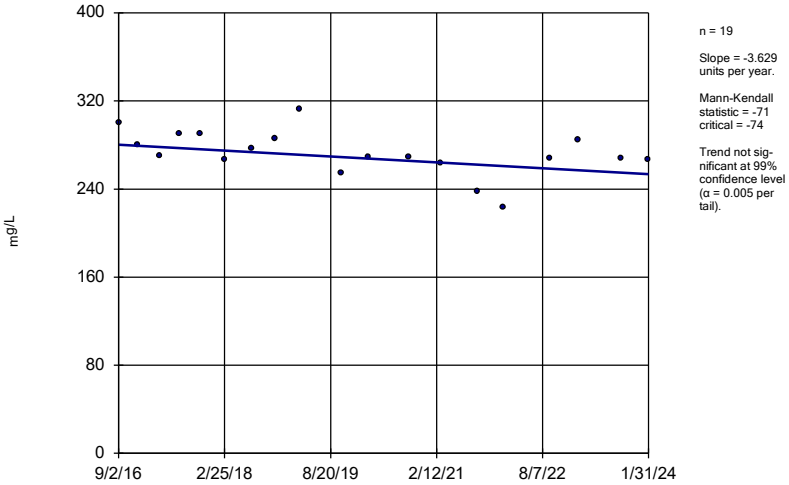
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-21



n = 19

Slope = -3.629 units per year.

Mann-Kendall statistic = -71
critical = -74

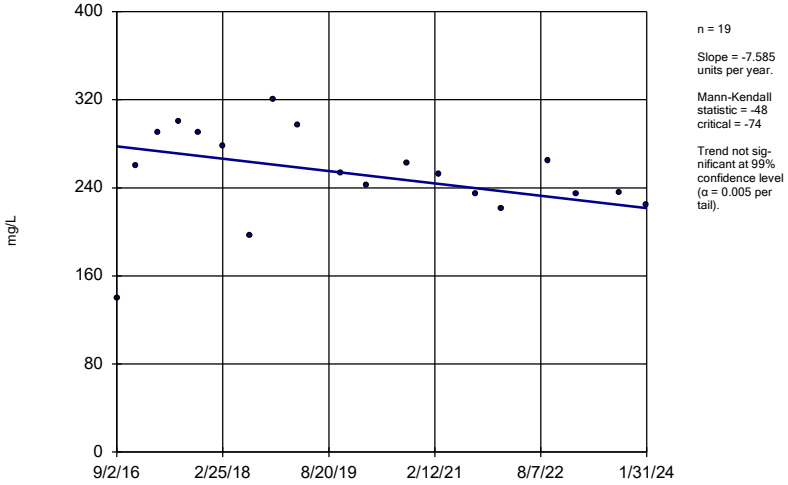
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-22



n = 19

Slope = -7.585 units per year.

Mann-Kendall statistic = -48
critical = -74

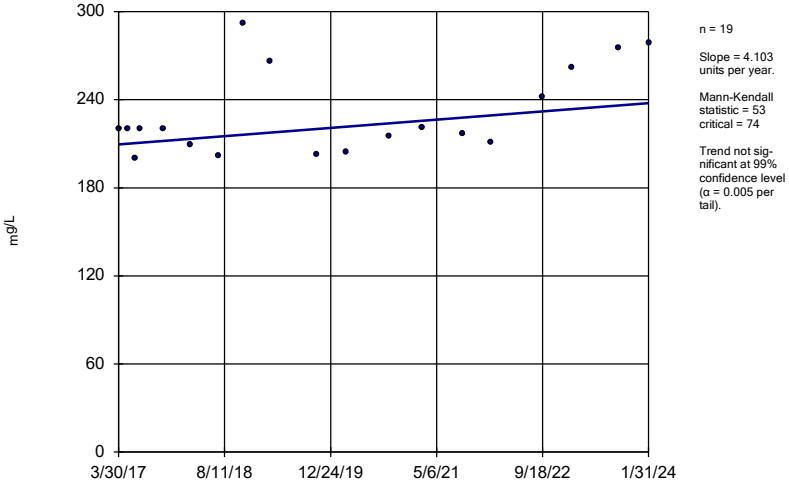
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-23



n = 19

Slope = 4.103 units per year.

Mann-Kendall statistic = 53
critical = 74

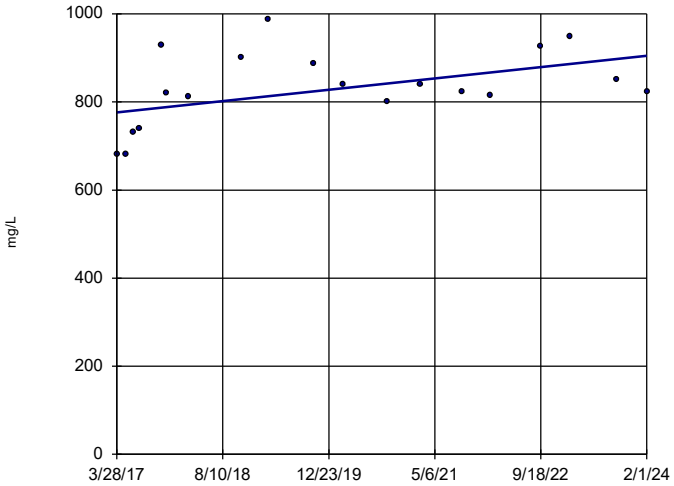
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-4



n = 19

Slope = 18.73 units per year.

Mann-Kendall statistic = 61
critical = 74

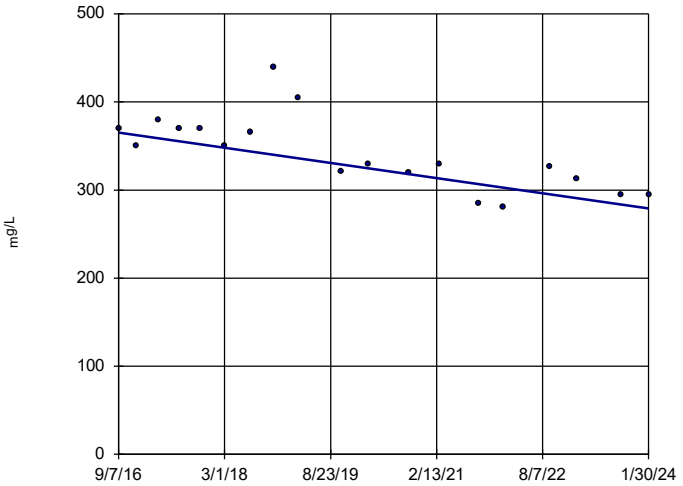
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-42



n = 19

Slope = -11.61 units per year.

Mann-Kendall statistic = -99
critical = -74

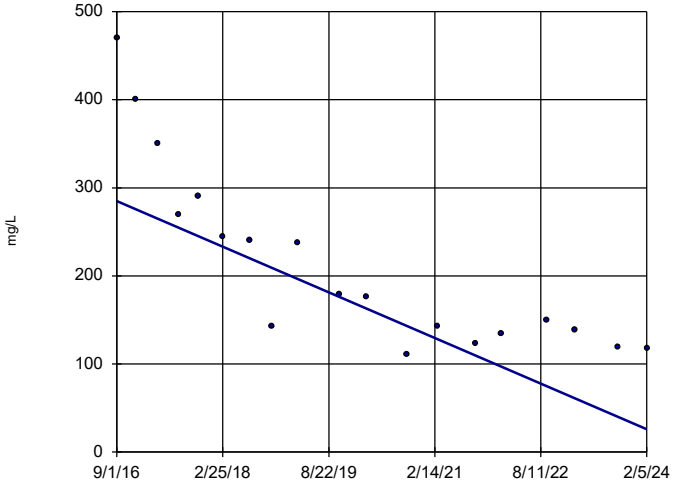
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-47



n = 19

Slope = -34.86 units per year.

Mann-Kendall statistic = -134
critical = -74

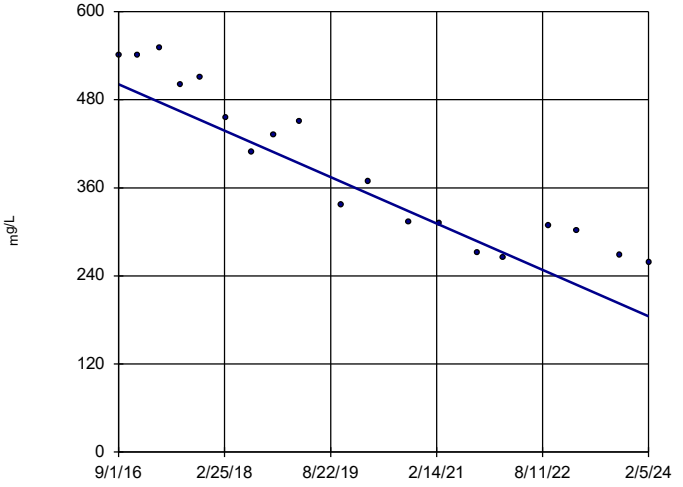
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 19

Slope = -42.51 units per year.

Mann-Kendall statistic = -146
critical = -74

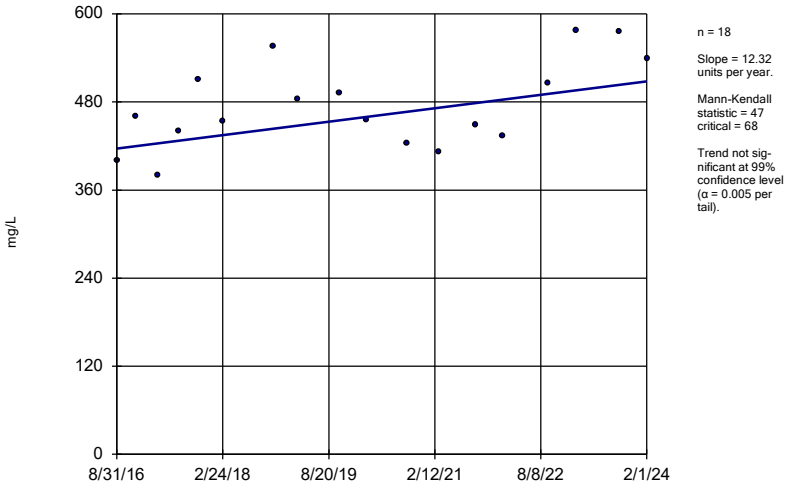
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:22 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 18

Slope = 12.32 units per year.

Mann-Kendall statistic = 47
critical = 68

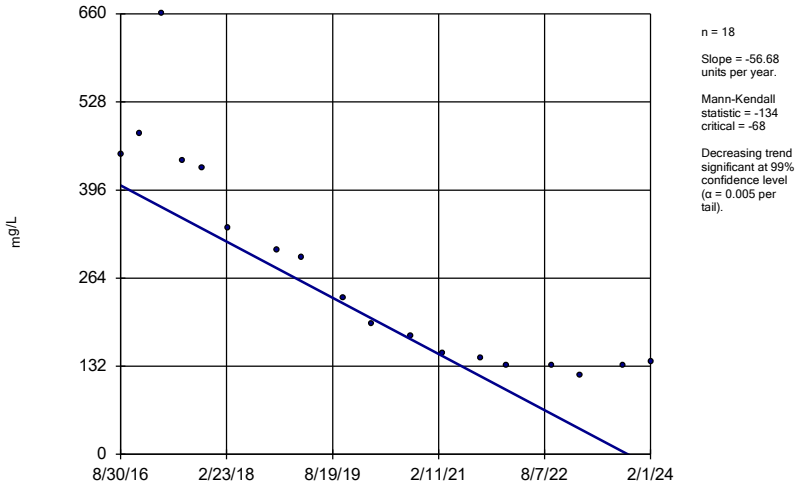
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-8



n = 18

Slope = -56.68 units per year.

Mann-Kendall statistic = -134
critical = -68

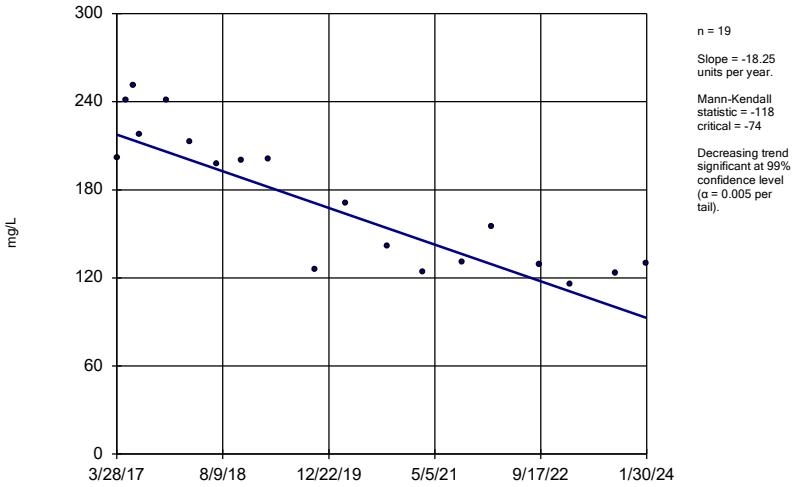
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 19

Slope = -18.25 units per year.

Mann-Kendall statistic = -118
critical = -74

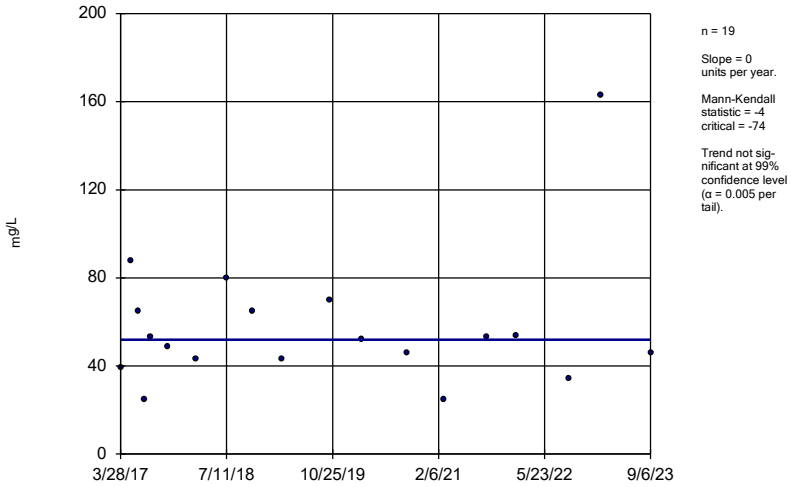
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -74

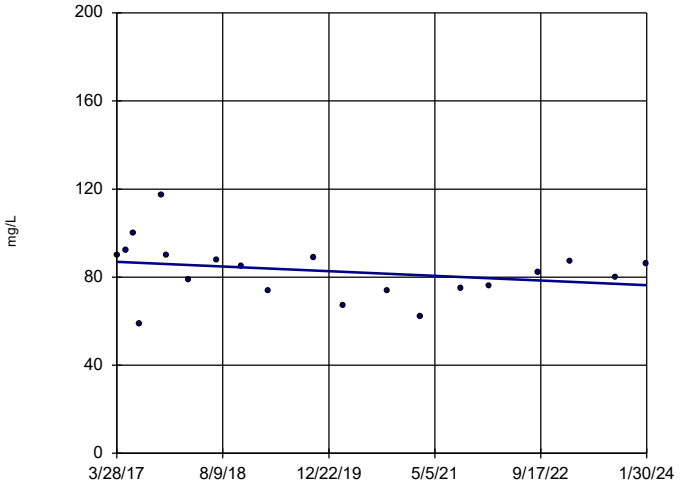
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = -1.554 units per year.

Mann-Kendall statistic = -46
critical = -81

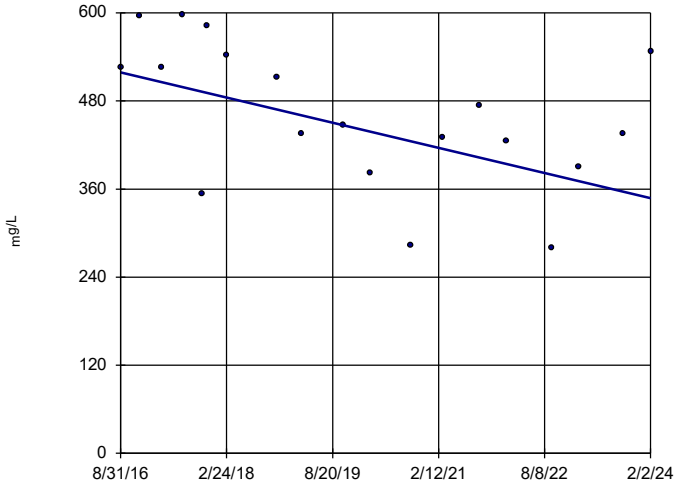
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 19

Slope = -23.07 units per year.

Mann-Kendall statistic = -63
critical = -74

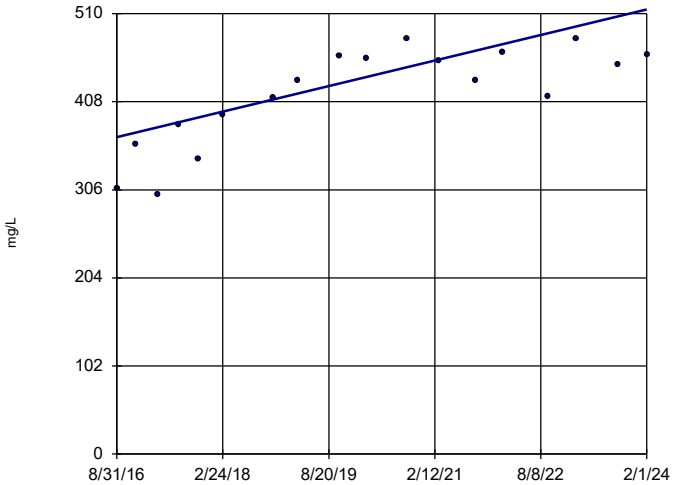
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-11



n = 18

Slope = 19.93 units per year.

Mann-Kendall statistic = 93
critical = 68

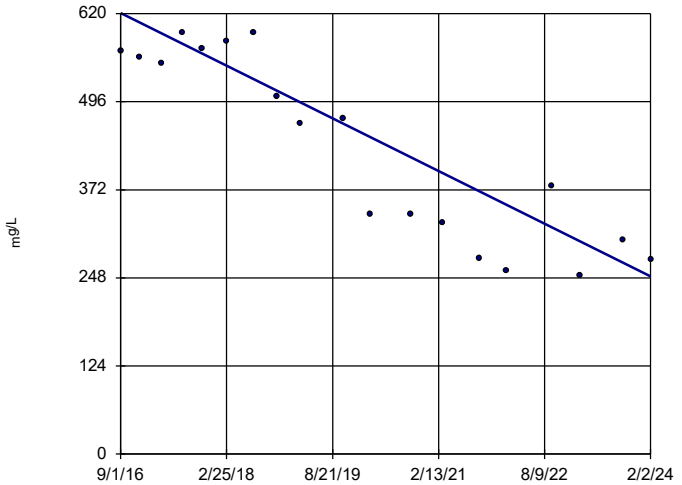
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-12



n = 19

Slope = -49.92 units per year.

Mann-Kendall statistic = -118
critical = -74

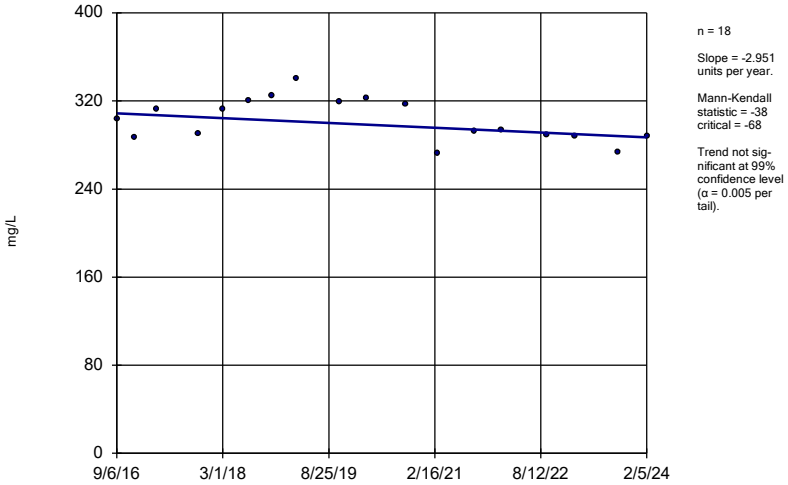
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-15



n = 18

Slope = -2.951 units per year.

Mann-Kendall statistic = -38 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

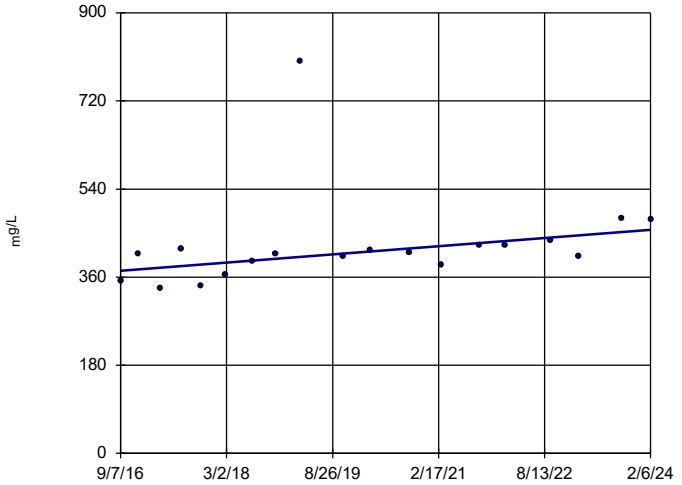
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-17



n = 19

Slope = 11.35 units per year.

Mann-Kendall statistic = 85 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

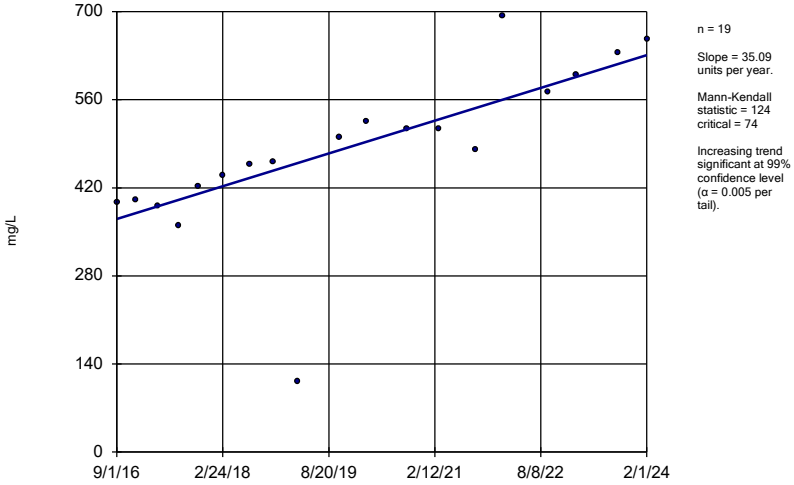
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 19

Slope = 35.09 units per year.

Mann-Kendall statistic = 124 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

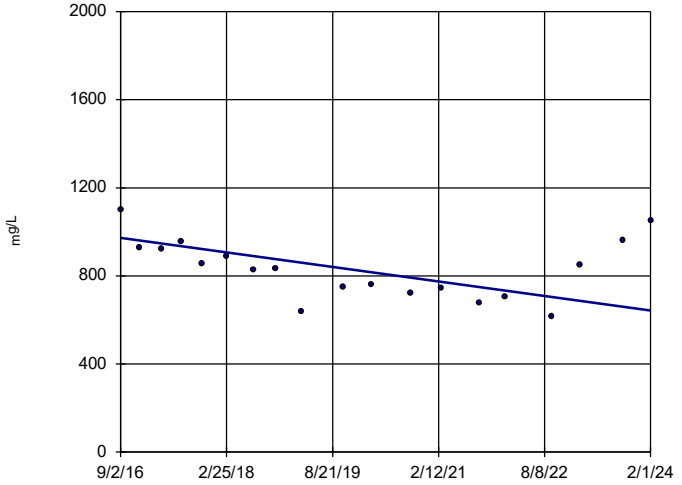
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 19

Slope = -44.39 units per year.

Mann-Kendall statistic = -59 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

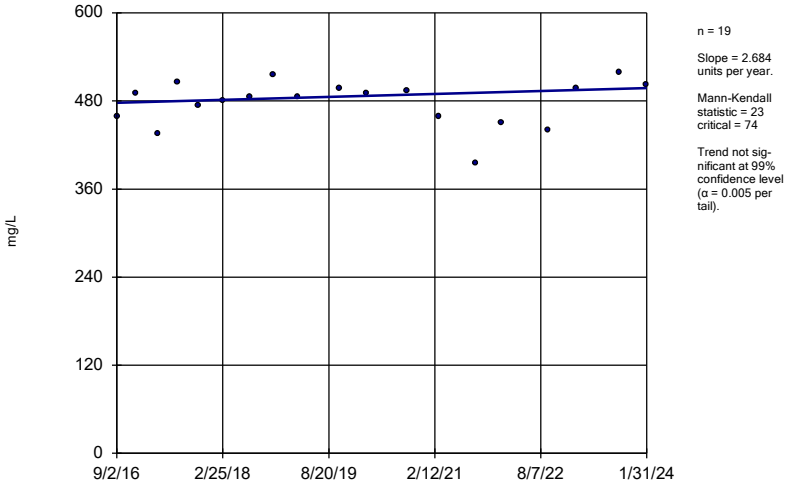
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-21



n = 19

Slope = 2.684 units per year.

Mann-Kendall statistic = 23 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

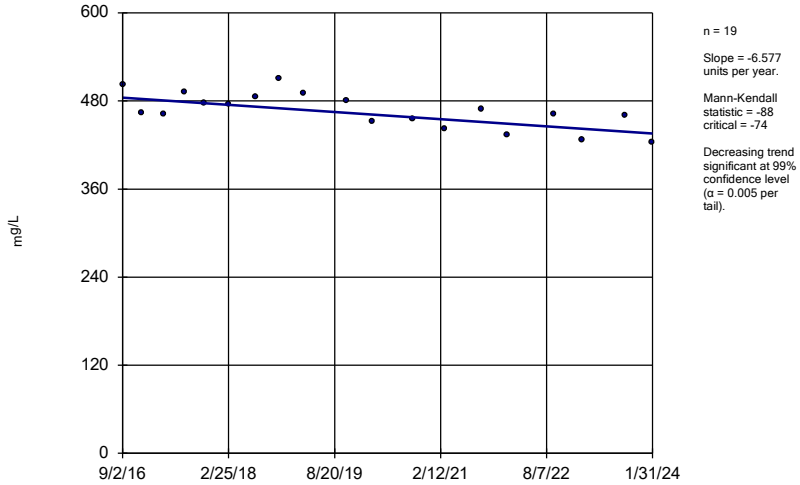
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-22



n = 19

Slope = -6.577 units per year.

Mann-Kendall statistic = -88 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

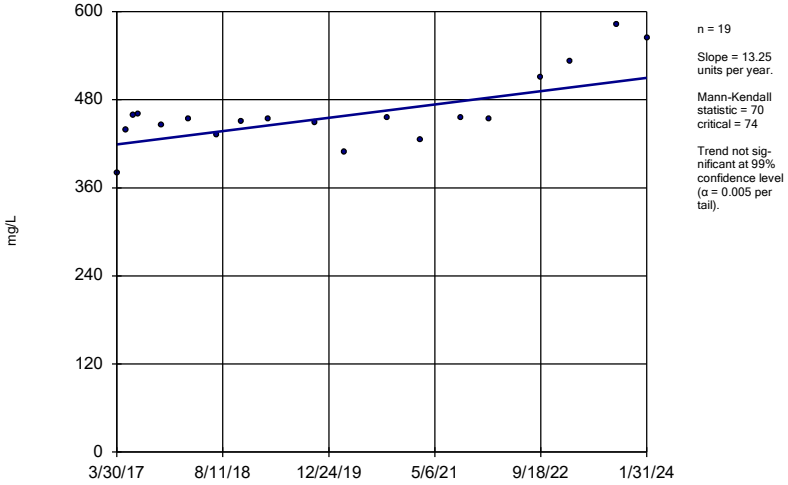
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-23



n = 19

Slope = 13.25 units per year.

Mann-Kendall statistic = 70 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

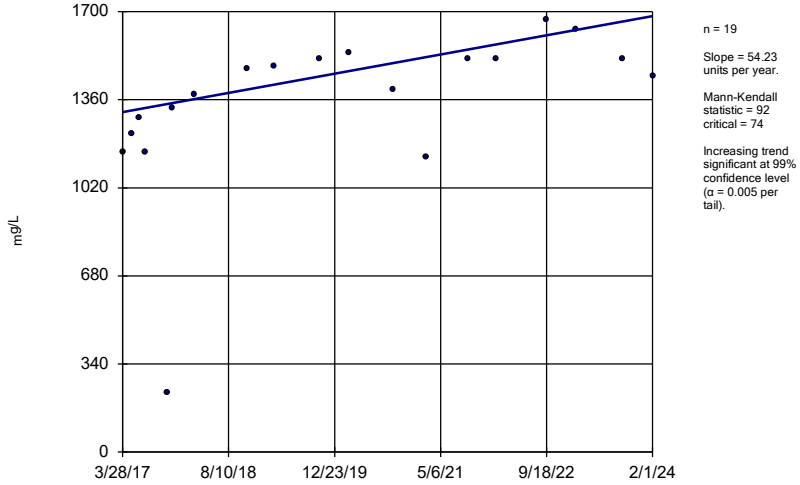
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-4



n = 19

Slope = 54.23 units per year.

Mann-Kendall statistic = 92 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

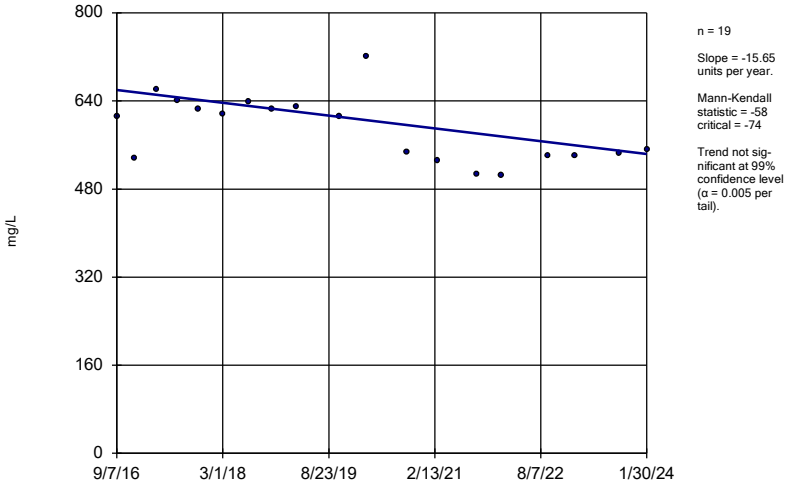
Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-42



n = 19

Slope = -15.65 units per year.

Mann-Kendall statistic = -58
critical = -74

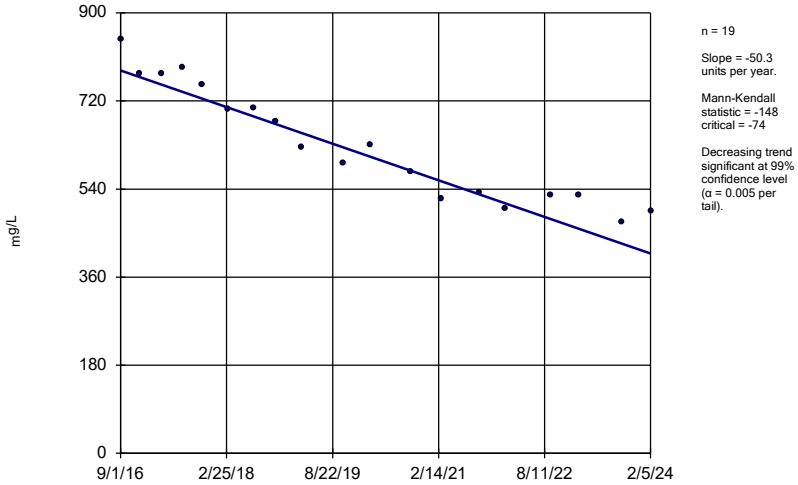
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 19

Slope = -50.3 units per year.

Mann-Kendall statistic = -148
critical = -74

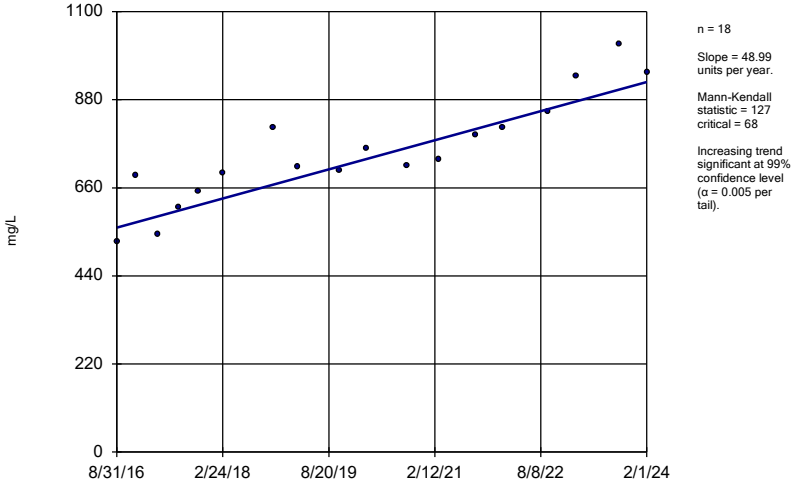
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 18

Slope = 48.99 units per year.

Mann-Kendall statistic = 127
critical = 68

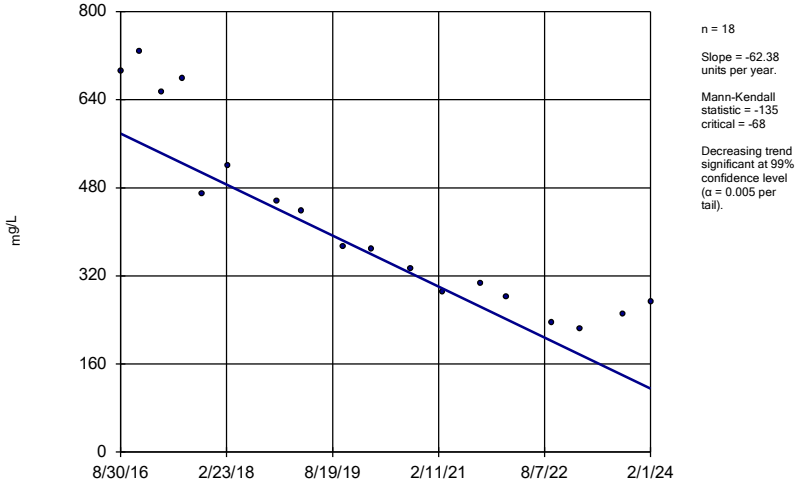
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-8



n = 18

Slope = -62.38 units per year.

Mann-Kendall statistic = -135
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/3/2024 4:23 PM View: AP 234 Appendix III Tren
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE F.

Trend Test Summary - Cobalt DGWA-53

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/2/2024, 1:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003272**	**-118**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**

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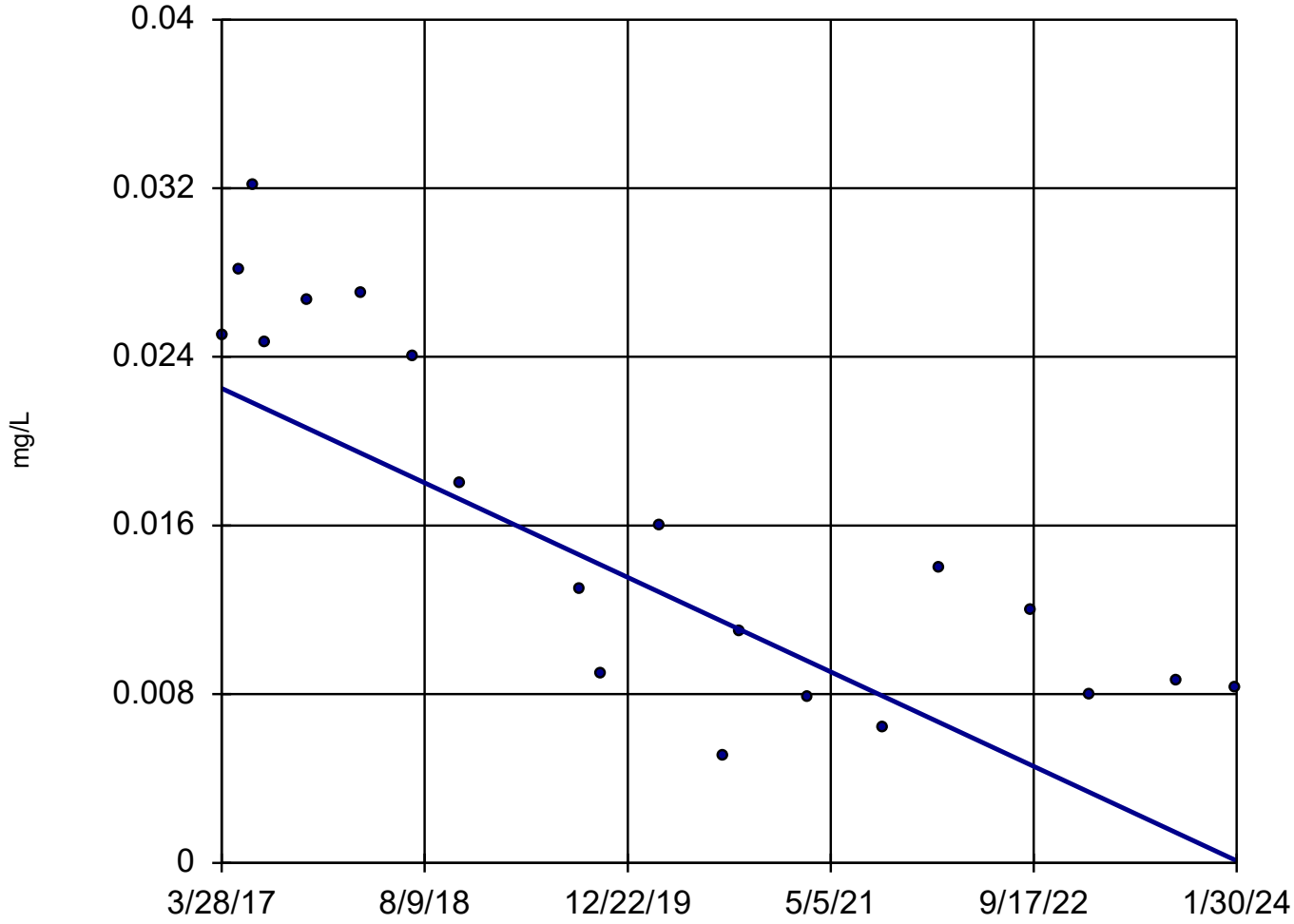
Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.003272 units per year.

Mann-Kendall statistic = -118
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/2/2024 1:04 PM

Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE G.

Upper Tolerance Limits Summary Table

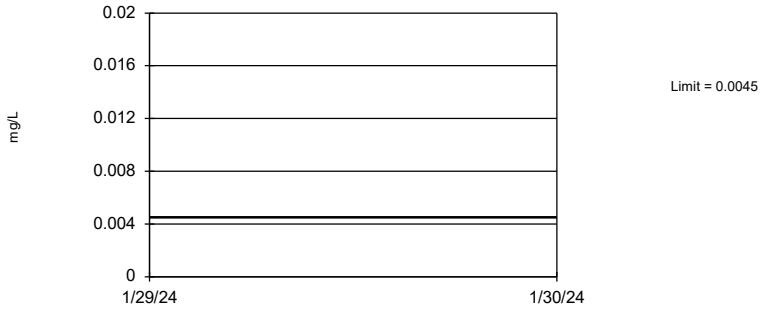
Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:29 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.0045	n/a	n/a	n/a	n/a	60	83.33	n/a	0.04607	NP Inter(NDs)
Arsenic (mg/L)	0.0054	n/a	n/a	n/a	n/a	60	76.67	n/a	0.04607	NP Inter(NDs)
Barium (mg/L)	0.19	n/a	n/a	n/a	n/a	60	0	n/a	0.04607	NP Inter(normality)
Beryllium (mg/L)	0.0009	n/a	n/a	n/a	n/a	60	53.33	n/a	0.04607	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	n/a	60	93.33	n/a	0.04607	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	n/a	n/a	59	71.19	n/a	0.04849	NP Inter(NDs)
Cobalt (mg/L)	0.024	n/a	n/a	n/a	n/a	54	50	n/a	0.06267	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	4.743	n/a	n/a	n/a	n/a	60	0	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.42	n/a	n/a	n/a	n/a	64	48.44	n/a	0.03752	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	n/a	60	85	n/a	0.04607	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	n/a	60	36.67	n/a	0.04607	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	n/a	60	83.33	n/a	0.04607	NP Inter(NDs)
Molybdenum (mg/L)	0.0409	n/a	n/a	n/a	n/a	60	65	n/a	0.04607	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	n/a	60	100	n/a	0.04607	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	n/a	60	95	n/a	0.04607	NP Inter(NDs)

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



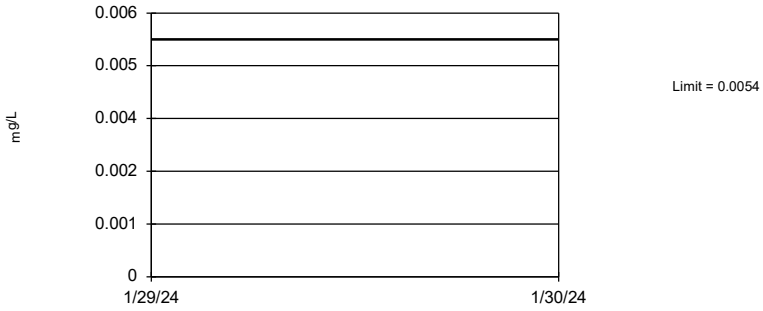
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 83.33% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Antimony Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



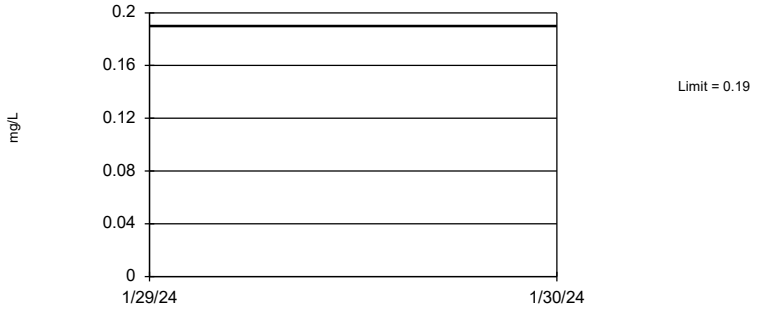
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 76.67% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Arsenic Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



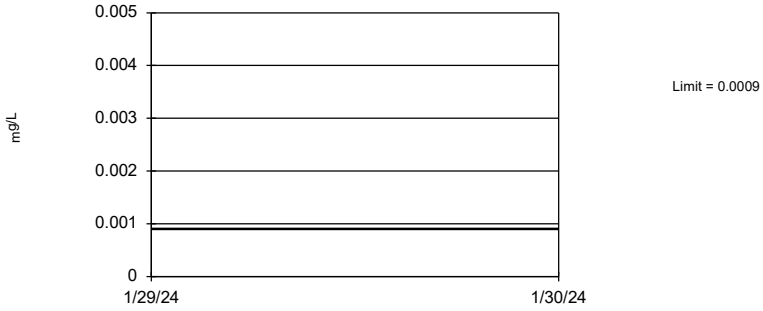
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Barium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



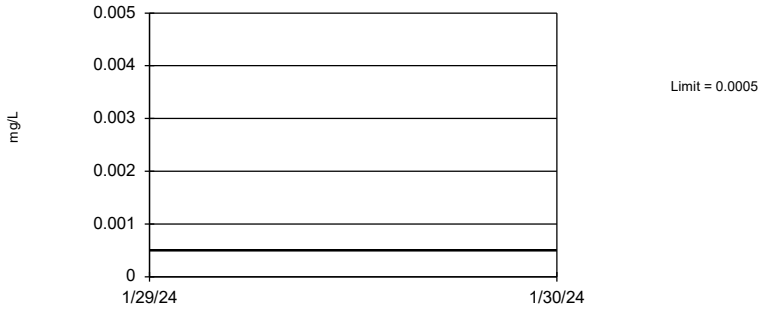
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 53.33% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Beryllium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



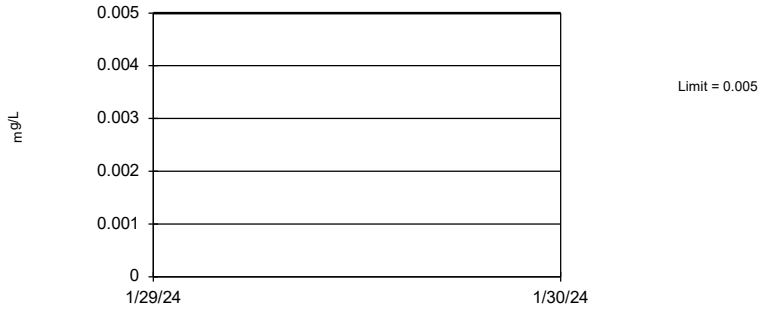
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 93.33% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Cadmium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



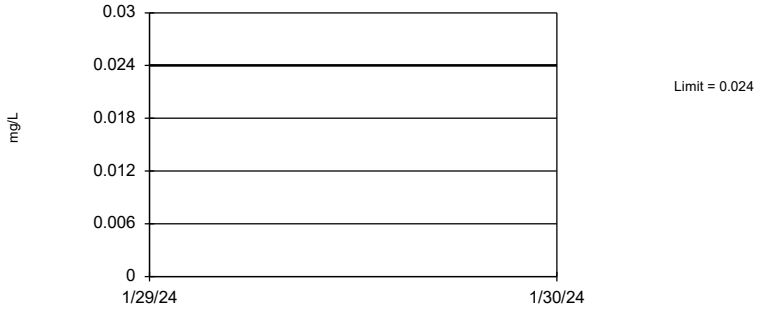
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 59 background values. 71.19% NDs. 92.38% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04849.

Constituent: Chromium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



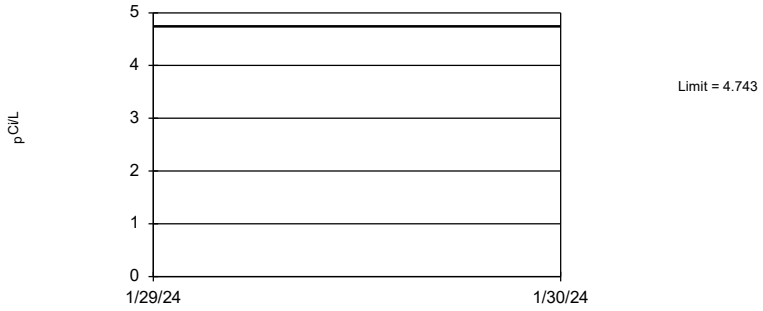
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. 50% NDs. 91.99% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06267.

Constituent: Cobalt Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Parametric

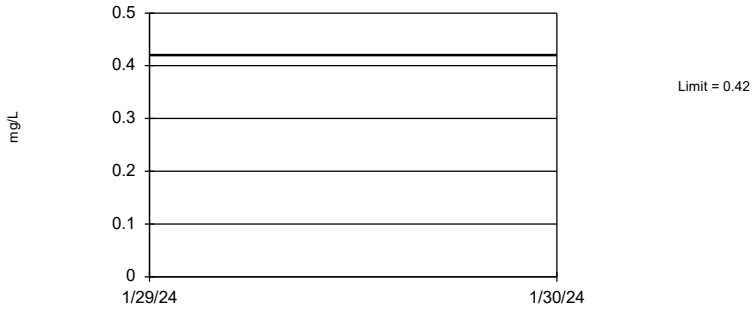


95% coverage. Background Data Summary (based on cube root transformation): Mean=1.018, Std. Dev.=0.3282, n=60. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.959, critical = 0.945. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Tolerance Limit

Interwell Non-parametric



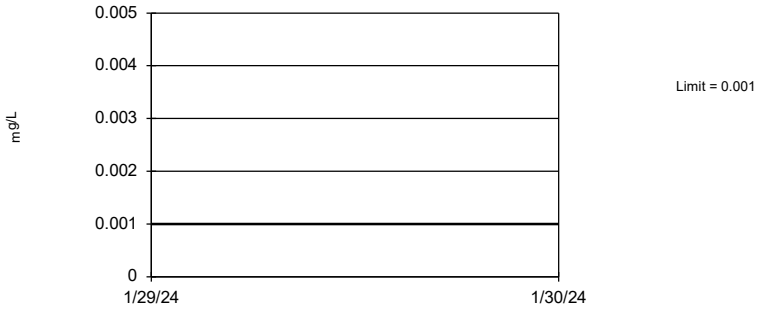
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. 48.44% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Fluoride Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



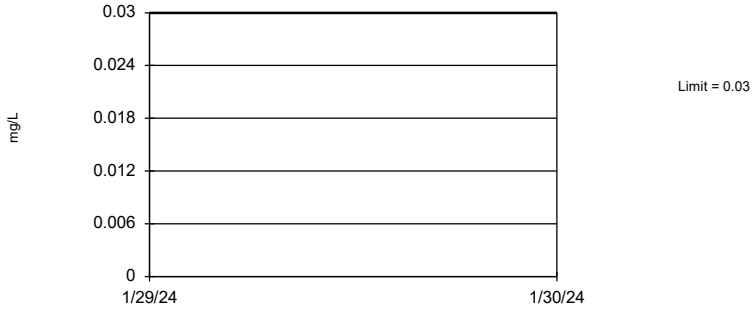
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 85% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Lead Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



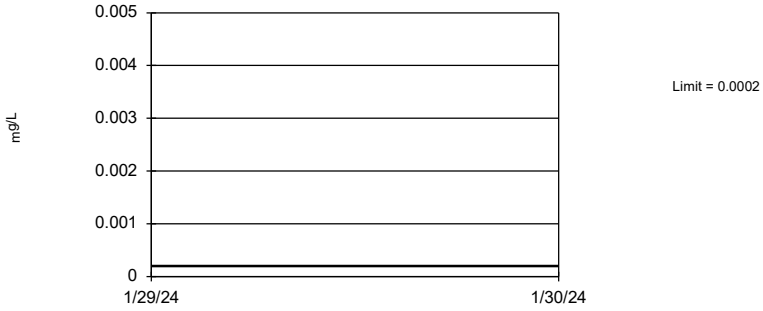
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 36.67% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Lithium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric

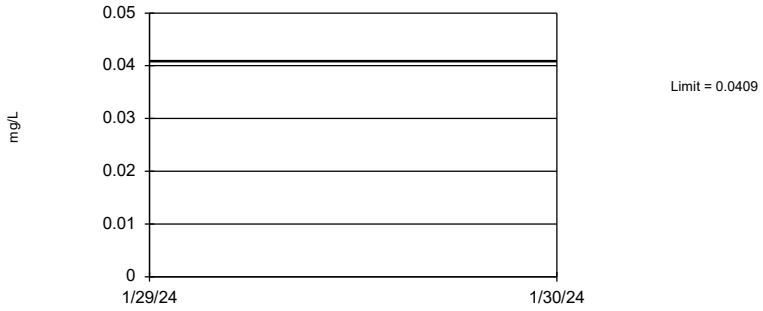


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 83.33% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Mercury Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 65% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Molybdenum Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



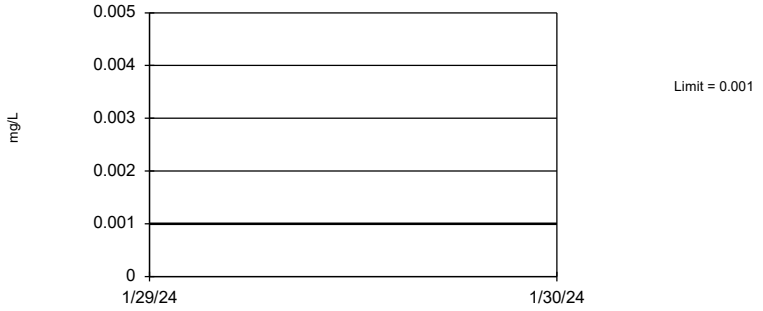
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Selenium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 95% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Thallium Analysis Run 4/3/2024 4:27 PM View: AP 234 UTLs
Plant McDonough Client: Southern Company Data: McDonough AP

FIGURE H.

PLANT MCDONOUGH ASH POND 2, 3, 4 GWPS TABLE				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0045	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	0.024	0.024
Combined Radium, Total (pCi/L)	5		4.74	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 I.

Confidence Intervals Summary Table - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**DGWC-20**	**0.01883**	**0.01009**	**0.01**	**Yes**	**20**	**0.007688**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**DGWC-9**	**0.02771**	**0.01603**	**0.01**	**Yes**	**18**	**0.009656**	**5.556**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-92**	**0.01962**	**0.01388**	**0.004**	**Yes**	**8**	**0.002712**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01676**	**0.01288**	**0.004**	**Yes**	**10**	**0.003017**	**0**	**None**	**x^3**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-10**	**0.008631**	**0.006064**	**0.004**	**Yes**	**19**	**0.002192**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-47**	**0.01186**	**0.00887**	**0.004**	**Yes**	**20**	**0.002633**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008697**	**0.007093**	**0.004**	**Yes**	**20**	**0.001413**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-5**	**0.00868**	**0.006772**	**0.004**	**Yes**	**19**	**0.001629**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-9**	**0.005746**	**0.004909**	**0.004**	**Yes**	**18**	**0.0006918**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-104D**	**0.1871**	**0.1248**	**0.024**	**Yes**	**9**	**0.03504**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	**B-56**	**0.06077**	**0.04367**	**0.024**	**Yes**	**9**	**0.008857**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-63**	**0.04873**	**0.03417**	**0.024**	**Yes**	**10**	**0.00816**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-92**	**0.08566**	**0.04134**	**0.024**	**Yes**	**6**	**0.01613**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06723**	**0.05084**	**0.024**	**Yes**	**10**	**0.0123**	**0**	**None**	**x^3**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.076**	**0.024**	**Yes**	**19**	**0.05251**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	**DGWC-19**	**0.05352**	**0.0502**	**0.024**	**Yes**	**20**	**0.002929**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-20**	**0.8207**	**0.5232**	**0.024**	**Yes**	**20**	**0.2869**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-47**	**0.3468**	**0.2343**	**0.024**	**Yes**	**20**	**0.09913**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4713**	**0.3647**	**0.024**	**Yes**	**20**	**0.09394**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-8**	**0.07235**	**0.02797**	**0.024**	**Yes**	**19**	**0.0379**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.2082**	**0.1546**	**0.024**	**Yes**	**18**	**0.04426**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**16.06**	**10.87**	**5**	**Yes**	**9**	**2.689**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	**B-122D**	**14.9**	**7.94**	**5**	**Yes**	**4**	**3.855**	**0**	**None**	**No**	**0.0625**	**NP (normality)**
Lithium (mg/L)	**B-120D**	**0.0876**	**0.05211**	**0.04**	**Yes**	**7**	**0.01494**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-47**	**0.06936**	**0.05327**	**0.04**	**Yes**	**20**	**0.01417**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1208**	**0.1016**	**0.04**	**Yes**	**20**	**0.01689**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	B-100	0.003	0.0013	0.006	No	9	0.000669	77.78	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-101D	0.001457	0.0004504	0.006	No	8	0.00115	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Antimony (mg/L)	B-102D	0.003	0.001	0.006	No	9	0.0007645	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Antimony (mg/L)	B-104D	0.003	0.00048	0.006	No	9	0.001188	55.56	Kaplan-Meier	No	0.002	NP (NDs)
Antimony (mg/L)	B-106D	0.003	0.00048	0.006	No	8	0.000891	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	B-111D	0.003	0.0006	0.006	No	9	0.0008743	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Antimony (mg/L)	B-120D	0.003	0.00029	0.006	No	7	0.001024	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	B-122D	0.003	0.0006	0.006	No	4	0.0012	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	B-56	0.003	0.0011	0.006	No	9	0.0006333	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-62	0.003	0.00046	0.006	No	12	0.0007332	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	B-63	0.003	0.00066	0.006	No	9	0.00078	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-77	0.003	0.00043	0.006	No	11	0.001182	72.73	None	No	0.006	NP (NDs)
Antimony (mg/L)	B-93	0.003	0.00096	0.006	No	9	0.0008686	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	B-98	0.003	0.001	0.006	No	6	0.0008165	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	DGWC-10	0.003	0.0021	0.006	No	19	0.0002065	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-12	0.003	0.0003	0.006	No	21	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-14	0.003	0.0011	0.006	No	20	0.0006004	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-15	0.003	0.00073	0.006	No	20	0.000763	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-17	0.003	0.00045	0.006	No	20	0.0005702	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-19	0.003	0.0013	0.006	No	20	0.0006851	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-2	0.003	0.0006	0.006	No	20	0.0005367	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-20	0.003	0.0018	0.006	No	20	0.0002683	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-21	0.003	0.0013	0.006	No	20	0.0003801	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-23	0.003	0.0007	0.006	No	20	0.0005143	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-4	0.003	0.0028	0.006	No	19	0.0008885	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-47	0.003	0.0012	0.006	No	20	0.0004025	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-48	0.003	0.0018	0.006	No	20	0.0006294	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-5	0.003	0.0015	0.006	No	19	0.0008364	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	DGWC-8	0.003	0.00046	0.006	No	19	0.0005827	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-101D	0.005	0.0017	0.01	No	8	0.001167	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-104D	0.005	0.00093	0.01	No	9	0.001613	55.56	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-108D	0.008	0.005	0.01	No	8	0.001061	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	B-111D	0.005	0.0022	0.01	No	9	0.001281	66.67	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-120D	0.005	0.0016	0.01	No	7	0.001285	85.71	None	No	0.008	NP (NDs)
Arsenic (mg/L)	B-56	0.004691	0.002975	0.01	No	9	0.0008888	11.11	None	No	0.01	Param.
Arsenic (mg/L)	B-62	0.005	0.0033	0.01	No	12	0.0004907	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	B-63	0.005	0.0022	0.01	No	9	0.0009333	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-77	0.005	0.002	0.01	No	11	0.001475	45.45	None	No	0.006	NP (normality)
Arsenic (mg/L)	B-82	0.005	0.004	0.01	No	11	0.0006467	81.82	None	No	0.006	NP (NDs)
Arsenic (mg/L)	B-83	0.005	0.005	0.01	No	10	0.001138	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	B-92	0.002416	0.001185	0.01	No	6	0.001712	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	B-93	0.005	0.0013	0.01	No	9	0.001536	55.56	None	No	0.002	NP (NDs)
Arsenic (mg/L)	B-97	0.005	0.0014	0.01	No	6	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	DGWC-10	0.00646	0.003645	0.01	No	19	0.002403	5.263	None	No	0.01	Param.
Arsenic (mg/L)	DGWC-12	0.005	0.00063	0.01	No	21	0.001319	90.48	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-14	0.005	0.00039	0.01	No	20	0.001031	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-15	0.005	0.0013	0.01	No	20	0.001527	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-17	0.005	0.0012	0.01	No	20	0.001942	65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-19	0.001809	0.000967	0.01	No	20	0.001725	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-2	0.005	0.0025	0.01	No	20	0.001156	85	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-20**	**0.01883**	**0.01009**	**0.01**	**Yes**	**20**	**0.007688**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	DGWC-22	0.005	0.001	0.01	No	20	0.0008944	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-4	0.005	0.0011	0.01	No	19	0.001794	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-42	0.005	0.0011	0.01	No	20	0.001264	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-47	0.002512	0.001372	0.01	No	20	0.001624	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	DGWC-48	0.005	0.0015	0.01	No	20	0.001897	65	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	DGWC-5	0.006957	0.002545	0.01	No	19	0.008745	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	DGWC-8	0.005	0.0015	0.01	No	19	0.001672	73.68	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	**DGWC-9**	**0.02771**	**0.01603**	**0.01**	**Yes**	**18**	**0.009656**	**5.556**	**None**	**No**	**0.01**	**Param.**
Barium (mg/L)	B-100	0.098	0.015	2	No	9	0.02594	0	None	No	0.002	NP (normality)
Barium (mg/L)	B-101D	0.07711	0.05664	2	No	8	0.009658	0	None	No	0.01	Param.
Barium (mg/L)	B-102D	0.0225	0.01905	2	No	9	0.001787	0	None	No	0.01	Param.
Barium (mg/L)	B-104D	0.02377	0.01845	2	No	9	0.002759	0	None	No	0.01	Param.
Barium (mg/L)	B-106D	0.02277	0.02023	2	No	8	0.001195	0	None	No	0.01	Param.
Barium (mg/L)	B-107D	0.1145	0.0407	2	No	8	0.03483	0	None	No	0.01	Param.
Barium (mg/L)	B-108D	0.06208	0.04942	2	No	8	0.00597	0	None	No	0.01	Param.
Barium (mg/L)	B-111D	0.03764	0.02572	2	No	9	0.006364	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-120D	0.03824	0.01833	2	No	7	0.008381	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	B-122D	0.05717	0.03033	2	No	4	0.005909	0	None	No	0.01	Param.
Barium (mg/L)	B-56	0.02919	0.02615	2	No	9	0.001581	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-62	0.0245	0.01817	2	No	12	0.00403	0	None	No	0.01	Param.
Barium (mg/L)	B-63	0.062	0.02	2	No	9	0.01566	0	None	No	0.002	NP (normality)
Barium (mg/L)	B-66	0.02453	0.0168	2	No	9	0.004	0	None	No	0.01	Param.
Barium (mg/L)	B-77	0.1208	0.09832	2	No	11	0.01347	0	None	No	0.01	Param.
Barium (mg/L)	B-82	0.02776	0.02164	2	No	10	0.003433	0	None	No	0.01	Param.
Barium (mg/L)	B-83	0.034	0.024	2	No	10	0.009487	0	None	No	0.011	NP (normality)
Barium (mg/L)	B-88	0.02082	0.01563	2	No	9	0.002728	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	B-92	0.01807	0.01326	2	No	6	0.001751	0	None	No	0.01	Param.
Barium (mg/L)	B-93	0.01855	0.01456	2	No	9	0.002068	0	None	No	0.01	Param.
Barium (mg/L)	B-97	0.022	0.02	2	No	6	0.0008367	0	None	No	0.0155	NP (normality)
Barium (mg/L)	B-98	0.09008	0.02625	2	No	6	0.02323	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-10	0.0275	0.02152	2	No	19	0.005099	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-11	0.06268	0.04936	2	No	19	0.01137	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-12	0.03872	0.02675	2	No	21	0.01151	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-13	0.03148	0.02561	2	No	19	0.006668	5.263	None	x^2	0.01	Param.
Barium (mg/L)	DGWC-14	0.06203	0.05813	2	No	20	0.00343	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-15	0.04861	0.04206	2	No	20	0.00577	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-17	0.05139	0.03703	2	No	20	0.01265	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-19	0.02533	0.02246	2	No	20	0.002527	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-2	0.02263	0.02127	2	No	20	0.001191	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-20	0.01589	0.01082	2	No	20	0.004468	5	None	No	0.01	Param.
Barium (mg/L)	DGWC-21	0.027	0.024	2	No	20	0.001558	0	None	No	0.01	NP (normality)
Barium (mg/L)	DGWC-22	0.03592	0.03073	2	No	20	0.004576	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-23	0.02347	0.01933	2	No	20	0.003653	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-4	0.03544	0.03252	2	No	19	0.002489	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-42	0.01913	0.01576	2	No	20	0.003108	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-47	0.01994	0.01675	2	No	20	0.002812	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-48	0.01425	0.01316	2	No	20	0.0009545	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-5	0.01816	0.01666	2	No	18	0.001233	0	None	No	0.01	Param.
Barium (mg/L)	DGWC-8	0.03395	0.02416	2	No	19	0.008568	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	DGWC-9	0.0166	0.01506	2	No	18	0.001275	0	None	No	0.01	Param.
Beryllium (mg/L)	B-100	0.0005593	0.000354	0.004	No	9	0.0001063	11.11	None	No	0.01	Param.
Beryllium (mg/L)	B-101D	0.0005	0.000047	0.004	No	8	0.0002016	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	B-102D	0.001275	0.0008499	0.004	No	9	0.0002199	0	None	No	0.01	Param.
Beryllium (mg/L)	B-104D	0.001567	0.001233	0.004	No	9	0.0001732	0	None	No	0.01	Param.
Beryllium (mg/L)	B-106D	0.0001299	0.00008255	0.004	No	8	0.00002236	0	None	No	0.01	Param.
Beryllium (mg/L)	B-107D	0.0005	0.00005	0.004	No	8	0.0001591	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	B-108D	0.00058	0.0005	0.004	No	8	0.00002828	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	B-120D	0.00111	0.0007384	0.004	No	7	0.0001565	0	None	No	0.01	Param.
Beryllium (mg/L)	B-122D	0.0006362	0.0001238	0.004	No	4	0.0001128	0	None	No	0.01	Param.
Beryllium (mg/L)	B-56	0.0013	0.0011	0.004	No	9	0.00007071	0	None	No	0.002	NP (normality)
Beryllium (mg/L)	B-62	0.0025	0.00009	0.004	No	13	0.0008937	15.38	None	No	0.01	NP (normality)
Beryllium (mg/L)	B-63	0.00053	0.0003	0.004	No	11	0.000343	9.091	None	No	0.006	NP (normality)
Beryllium (mg/L)	B-77	0.0005	0.000057	0.004	No	11	0.0002115	54.55	None	No	0.006	NP (NDs)
Beryllium (mg/L)	B-82	0.0019	0.00138	0.004	No	10	0.0002914	0	None	No	0.01	Param.
Beryllium (mg/L)	B-83	0.00044	0.00028	0.004	No	10	0.0001168	0	None	No	0.011	NP (normality)
Beryllium (mg/L)	B-88	0.002547	0.0008737	0.004	No	9	0.001272	0	None	ln(x)	0.01	Param.
Beryllium (mg/L)	**B-92**	**0.01962**	**0.01388**	**0.004**	**Yes**	**8**	**0.002712**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**B-93**	**0.01676**	**0.01288**	**0.004**	**Yes**	**10**	**0.003017**	**0**	**None**	**x^3**	**0.01**	**Param.**
Beryllium (mg/L)	B-97	0.001828	0.001572	0.004	No	9	0.0001323	11.11	None	No	0.01	Param.
Beryllium (mg/L)	B-98	0.00087	0.000062	0.004	No	9	0.0002469	66.67	None	No	0.002	NP (NDs)
Beryllium (mg/L)	**DGWC-10**	**0.008631**	**0.006064**	**0.004**	**Yes**	**19**	**0.002192**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-11	0.003	0.00014	0.004	No	19	0.001409	36.84	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-12	0.00049	0.00011	0.004	No	21	0.0006206	19.05	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-13	0.0005	0.000073	0.004	No	19	0.0006573	52.63	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-15	0.003	0.00022	0.004	No	20	0.0005788	90	None	No	0.01	NP (NDs)
Beryllium (mg/L)	DGWC-17	0.00064	0.00052	0.004	No	20	0.0002888	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-19	0.001947	0.001703	0.004	No	20	0.0002149	10	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-20	0.005754	0.003146	0.004	No	20	0.002296	10	None	No	0.01	Param.
Beryllium (mg/L)	DGWC-21	0.0002	0.00015	0.004	No	20	0.0004121	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-22	0.0002	0.00013	0.004	No	20	0.0004143	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-23	0.0005	0.00038	0.004	No	20	0.0003404	10	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-4	0.00039	0.0002	0.004	No	19	0.0004021	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	DGWC-42	0.00264	0.00214	0.004	No	20	0.00044	5	None	No	0.01	Param.
Beryllium (mg/L)	**DGWC-47**	**0.01186**	**0.00887**	**0.004**	**Yes**	**20**	**0.002633**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**DGWC-48**	**0.008697**	**0.007093**	**0.004**	**Yes**	**20**	**0.001413**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**DGWC-5**	**0.00868**	**0.006772**	**0.004**	**Yes**	**19**	**0.001629**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	DGWC-8	0.002494	0.001336	0.004	No	19	0.001101	5.263	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	**DGWC-9**	**0.005746**	**0.004909**	**0.004**	**Yes**	**18**	**0.0006918**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	B-100	0.00059	0.00025	0.005	No	9	0.000136	11.11	None	No	0.002	NP (normality)
Cadmium (mg/L)	B-101D	0.0005	0.00011	0.005	No	8	0.0001379	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	B-102D	0.000894	0.0006904	0.005	No	9	0.0001054	0	None	No	0.01	Param.
Cadmium (mg/L)	B-106D	0.0005	0.00012	0.005	No	8	0.0001678	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	B-108D	0.0005	0.00018	0.005	No	8	0.0001131	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	B-120D	0.001151	0.0009485	0.005	No	7	0.00008544	0	None	No	0.01	Param.
Cadmium (mg/L)	B-56	0.0003422	0.0002533	0.005	No	9	0.00004604	0	None	No	0.01	Param.
Cadmium (mg/L)	B-63	0.0005	0.00014	0.005	No	9	0.0001655	44.44	None	No	0.002	NP (normality)
Cadmium (mg/L)	B-66	0.0005	0.00018	0.005	No	9	0.0001411	77.78	None	No	0.002	NP (NDs)
Cadmium (mg/L)	B-82	0.0007565	0.0005015	0.005	No	10	0.0001429	0	None	No	0.01	Param.
Cadmium (mg/L)	B-83	0.0003527	0.0002693	0.005	No	10	0.00004677	0	None	No	0.01	Param.
Cadmium (mg/L)	B-88	0.004329	0.0008973	0.005	No	9	0.001777	0	None	No	0.01	Param.
Cadmium (mg/L)	B-92	0.001543	0.0007773	0.005	No	6	0.0002786	0	None	No	0.01	Param.
Cadmium (mg/L)	B-93	0.0009094	0.0007483	0.005	No	9	0.00008343	0	None	No	0.01	Param.
Cadmium (mg/L)	B-97	0.0006421	0.0005313	0.005	No	6	0.00004033	0	None	No	0.01	Param.
Cadmium (mg/L)	B-98	0.0003539	0.0001528	0.005	No	6	0.0001465	50	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	DGWC-10	0.001076	0.0007	0.005	No	19	0.0003209	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-11	0.0005	0.00015	0.005	No	19	0.0001752	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-12	0.0003215	0.0002189	0.005	No	21	0.0001795	38.1	Kaplan-Meier	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-13	0.0005	0.0002	0.005	No	19	0.0001153	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-15	0.001	0.00013	0.005	No	20	0.0002065	80	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	DGWC-17	0.0003201	0.0002401	0.005	No	20	0.00008248	10	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-19	0.000406	0.00034	0.005	No	20	0.00005814	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-2	0.0005	0.00018	0.005	No	20	0.000209	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	DGWC-20	0.002539	0.001871	0.005	No	20	0.000588	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-21	0.000685	0.000471	0.005	No	20	0.0001885	15	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-22	0.0006186	0.0004754	0.005	No	20	0.000126	10	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-23	0.0003201	0.0001806	0.005	No	20	0.0001983	15	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-4	0.0008647	0.0006553	0.005	No	19	0.0001787	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-42	0.0009629	0.0004983	0.005	No	20	0.0004936	10	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	DGWC-47	0.001968	0.001225	0.005	No	20	0.0006538	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-48	0.003759	0.002485	0.005	No	20	0.001513	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	DGWC-5	0.0009159	0.0005367	0.005	No	19	0.0003239	10.53	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-8	0.002317	0.001638	0.005	No	19	0.0005801	0	None	No	0.01	Param.
Cadmium (mg/L)	DGWC-9	0.0006234	0.0005177	0.005	No	18	0.00008734	11.11	None	No	0.01	Param.
Chromium (mg/L)	B-100	0.005	0.00057	0.1	No	9	0.001874	77.78	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-101D	0.005	0.0014	0.1	No	8	0.001273	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-104D	0.005	0.0011	0.1	No	9	0.0013	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-106D	0.005	0.0013	0.1	No	8	0.001308	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	B-56	0.005	0.00059	0.1	No	9	0.001949	66.67	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-62	0.005	0.00098	0.1	No	12	0.00116	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	B-63	0.005	0.00064	0.1	No	9	0.001785	77.78	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-77	0.005	0.0007	0.1	No	11	0.001994	63.64	None	No	0.006	NP (NDs)
Chromium (mg/L)	B-82	0.005	0.0013	0.1	No	10	0.001603	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	B-83	0.0044	0.00208	0.1	No	10	0.001301	0	None	No	0.01	Param.
Chromium (mg/L)	B-88	0.005	0.00085	0.1	No	9	0.001854	66.67	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-93	0.005	0.00057	0.1	No	9	0.002077	55.56	None	No	0.002	NP (NDs)
Chromium (mg/L)	B-98	0.005	0.0013	0.1	No	6	0.001885	66.67	None	No	0.0155	NP (NDs)
Chromium (mg/L)	DGWC-10	0.005	0.0008	0.1	No	19	0.002014	36.84	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-11	0.005	0.00061	0.1	No	19	0.001844	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-12	0.005	0.00099	0.1	No	21	0.001214	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-13	0.005	0.0009	0.1	No	19	0.001792	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-15	0.01	0.0048	0.1	No	20	0.002073	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-17	0.0031	0.0025	0.1	No	20	0.0007688	10	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-19	0.003	0.0023	0.1	No	20	0.002746	15	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-2	0.005	0.00064	0.1	No	20	0.002103	70	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-20	0.002065	0.001513	0.1	No	20	0.002145	30	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	DGWC-21	0.005	0.00096	0.1	No	20	0.001988	70	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-22	0.005	0.0012	0.1	No	20	0.0008497	95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-23	0.005	0.0007	0.1	No	20	0.002176	50	None	No	0.01	NP (normality)
Chromium (mg/L)	DGWC-4	0.005	0.0005	0.1	No	19	0.001032	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-42	0.005	0.001	0.1	No	20	0.002039	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-47	0.005	0.0007	0.1	No	20	0.0009615	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-48	0.005	0.0007	0.1	No	20	0.001371	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-5	0.005	0.00045	0.1	No	19	0.001044	94.74	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	DGWC-8	0.005	0.0013	0.1	No	19	0.00185	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	DGWC-9	0.005	0.00061	0.1	No	18	0.002082	55.56	None	No	0.01	NP (NDs)
Cobalt (mg/L)	B-100	0.06941	0.02304	0.024	No	11	0.02782	9.091	None	No	0.01	Param.
Cobalt (mg/L)	B-101D	0.00339	0.00236	0.024	No	8	0.0004862	0	None	No	0.01	Param.
Cobalt (mg/L)	B-102D	0.01446	0.01038	0.024	No	9	0.002111	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-104D**	**0.1871**	**0.1248**	**0.024**	**Yes**	**9**	**0.03504**	**0**	**None**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	B-106D	0.005	0.00056	0.024	No	8	0.002222	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	B-107D	0.001339	0.0006112	0.024	No	8	0.0003433	0	None	No	0.01	Param.
Cobalt (mg/L)	B-108D	0.12	0.00045	0.024	No	8	0.04188	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	B-111D	0.005	0.0004	0.024	No	9	0.002344	44.44	None	No	0.002	NP (normality)
Cobalt (mg/L)	B-120D	0.009463	0.001518	0.024	No	7	0.005384	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	B-122D	0.01314	0.003207	0.024	No	4	0.002188	0	None	No	0.01	Param.
Cobalt (mg/L)	**B-56**	**0.06077**	**0.04367**	**0.024**	**Yes**	**9**	**0.008857**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-62	0.005	0.00031	0.024	No	13	0.001763	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	**B-63**	**0.04873**	**0.03417**	**0.024**	**Yes**	**10**	**0.00816**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	B-66	0.01648	0.007399	0.024	No	10	0.005089	10	None	No	0.01	Param.
Cobalt (mg/L)	B-77	0.005	0.0004	0.024	No	11	0.002	45.45	None	No	0.006	NP (normality)
Cobalt (mg/L)	B-82	0.00485	0.001829	0.024	No	11	0.002138	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	B-83	0.01717	0.009666	0.024	No	10	0.004208	0	None	No	0.01	Param.
Cobalt (mg/L)	B-88	0.018	0.0015	0.024	No	10	0.00755	0	None	No	0.011	NP (normality)
Cobalt (mg/L)	**B-92**	**0.08566**	**0.04134**	**0.024**	**Yes**	**6**	**0.01613**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**B-93**	**0.06723**	**0.05084**	**0.024**	**Yes**	**10**	**0.0123**	**0**	**None**	**x^3**	**0.01**	**Param.**
Cobalt (mg/L)	B-97	0.003276	0.002824	0.024	No	6	0.0001643	0	None	No	0.01	Param.
Cobalt (mg/L)	B-98	0.005	0.00063	0.024	No	8	0.001537	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	**DGWC-10**	**0.193**	**0.076**	**0.024**	**Yes**	**19**	**0.05251**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Cobalt (mg/L)	DGWC-11	0.01	0.00065	0.024	No	19	0.004361	31.58	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-12	0.01395	0.004776	0.024	No	21	0.009566	9.524	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	DGWC-13	0.005	0.0005	0.024	No	19	0.001713	84.21	None	No	0.01	NP (NDs)
Cobalt (mg/L)	DGWC-15	0.0024	0.0016	0.024	No	20	0.005192	5	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-17	0.02525	0.01844	0.024	No	20	0.005999	5	None	No	0.01	Param.
Cobalt (mg/L)	**DGWC-19**	**0.05352**	**0.0502**	**0.024**	**Yes**	**20**	**0.002929**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-2	0.01846	0.006234	0.024	No	20	0.01188	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-20**	**0.8207**	**0.5232**	**0.024**	**Yes**	**20**	**0.2869**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-21	0.009608	0.008439	0.024	No	20	0.001504	10	None	x^4	0.01	Param.
Cobalt (mg/L)	DGWC-22	0.009402	0.007368	0.024	No	20	0.001791	10	None	No	0.01	Param.
Cobalt (mg/L)	DGWC-23	0.005	0.00048	0.024	No	20	0.002794	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-4	0.002	0.0016	0.024	No	19	0.001041	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	DGWC-42	0.0327	0.01241	0.024	No	20	0.02028	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-47**	**0.3468**	**0.2343**	**0.024**	**Yes**	**20**	**0.09913**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-48**	**0.4713**	**0.3647**	**0.024**	**Yes**	**20**	**0.09394**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	DGWC-5	0.02994	0.02014	0.024	No	19	0.01028	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	**DGWC-8**	**0.07235**	**0.02797**	**0.024**	**Yes**	**19**	**0.0379**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**DGWC-9**	**0.2082**	**0.1546**	**0.024**	**Yes**	**18**	**0.04426**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-100	1.063	0.2516	5	No	9	0.4203	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-101D	2.064	0.9054	5	No	8	0.5464	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-102D	1.301	0.4375	5	No	9	0.4474	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-104D**	**16.06**	**10.87**	**5**	**Yes**	**9**	**2.689**	**0**	**None**	**No**	**0.01**	**Param.**
Combined Radium 226 + 228 (pCi/L)	B-106D	0.8275	0.378	5	No	8	0.2121	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-107D	1.619	0.4689	5	No	8	0.5426	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-108D	1.605	0.8012	5	No	8	0.3791	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-111D	10.17	3.929	5	No	9	3.233	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-120D	3.047	1.211	5	No	7	0.7729	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	**B-122D**	**14.9**	**7.94**	**5**	**Yes**	**4**	**3.855**	**0**	**None**	**No**	**0.0625**	**NP (normality)**
Combined Radium 226 + 228 (pCi/L)	B-56	1.171	0.7946	5	No	9	0.1948	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-62	2.011	1.475	5	No	11	0.3213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-63	1.796	0.8227	5	No	8	0.4592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-66	1.024	0.249	5	No	8	0.3656	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-77	1.738	0.7417	5	No	10	0.5941	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-82	0.8561	0.3808	5	No	9	0.2461	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-83	0.8991	0.2279	5	No	10	0.3762	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-88	2.135	0.8615	5	No	9	0.7176	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-92	2.26	1.1	5	No	6	0.4226	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-93	1.59	0.8486	5	No	9	0.3839	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-97	1.932	0.8948	5	No	6	0.3775	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	B-98	2.233	0.247	5	No	6	0.7229	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-10	1.44	1.109	5	No	20	0.2913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-11	1.175	0.664	5	No	20	0.4499	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-12	1.226	0.5186	5	No	20	0.6225	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	DGWC-13	1.358	0.922	5	No	20	0.3835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-14	0.9976	0.6444	5	No	20	0.311	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-15	1.311	0.5958	5	No	20	0.7741	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-17	0.964	0.5773	5	No	20	0.3405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-19	0.9511	0.5126	5	No	20	0.386	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-2	1.293	0.8181	5	No	20	0.4185	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-20	1.519	0.991	5	No	20	0.4648	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-21	0.9893	0.5604	5	No	20	0.3776	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-22	1.212	0.687	5	No	20	0.4622	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-23	1.399	0.8606	5	No	20	0.4737	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-4	1.621	1.197	5	No	20	0.3733	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-42	1.125	0.6886	5	No	20	0.3842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-47	2.629	1.701	5	No	20	0.8171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-48	2.216	1.454	5	No	20	0.6708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-5	1.649	1.012	5	No	20	0.5607	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-8	0.8397	0.5305	5	No	20	0.2723	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DGWC-9	1.38	0.9599	5	No	18	0.3469	0	None	No	0.01	Param.
Fluoride (mg/L)	B-100	0.1	0.052	4	No	9	0.01949	66.67	None	No	0.002	NP (NDs)
Fluoride (mg/L)	B-101D	0.11	0.051	4	No	8	0.02587	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-102D	0.1037	0.07257	4	No	9	0.0161	0	None	No	0.01	Param.
Fluoride (mg/L)	B-104D	0.424	0.2871	4	No	9	0.07091	0	None	No	0.01	Param.
Fluoride (mg/L)	B-106D	0.07123	0.04927	4	No	8	0.01036	12.5	None	No	0.01	Param.
Fluoride (mg/L)	B-107D	0.1	0.053	4	No	8	0.01662	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	B-108D	0.13	0.061	4	No	8	0.01856	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	B-111D	0.4748	0.3273	4	No	9	0.08388	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	B-120D	0.1	0.052	4	No	7	0.02331	57.14	None	No	0.008	NP (NDs)
Fluoride (mg/L)	B-122D	0.2413	0.1637	4	No	4	0.01708	0	None	No	0.01	Param.
Fluoride (mg/L)	B-56	0.2986	0.152	4	No	9	0.07593	0	None	No	0.01	Param.
Fluoride (mg/L)	B-62	0.23	0.099	4	No	11	0.09675	0	None	No	0.006	NP (normality)
Fluoride (mg/L)	B-63	0.45	0.12	4	No	8	0.1125	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	B-66	0.3347	0.09165	4	No	8	0.1391	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	B-77	0.1	0.069	4	No	10	0.01462	40	None	No	0.011	NP (normality)
Fluoride (mg/L)	B-82	0.1281	0.06033	4	No	9	0.04038	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	B-83	0.1035	0.06066	4	No	10	0.02487	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	B-88	0.1	0.054	4	No	9	0.01533	88.89	Kaplan-Meier	No	0.002	NP (NDs)
Fluoride (mg/L)	B-92	0.2938	0.1762	4	No	6	0.04278	0	None	No	0.01	Param.
Fluoride (mg/L)	B-93	0.4	0.2556	4	No	9	0.0748	0	None	No	0.01	Param.
Fluoride (mg/L)	B-97	0.14	0.085	4	No	6	0.02165	0	None	No	0.0155	NP (normality)
Fluoride (mg/L)	B-98	0.1917	0.0843	4	No	6	0.03909	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-10	1.745	1.294	4	No	21	0.408	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-11	0.1	0.06	4	No	20	0.02423	65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-12	0.1436	0.06376	4	No	21	0.128	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-13	0.159	0.08001	4	No	20	0.09325	5	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-14	0.1	0.059	4	No	21	0.02535	61.9	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-15	0.11	0.07	4	No	21	0.0404	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-17	0.1891	0.0845	4	No	21	0.1427	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-19	0.3623	0.1638	4	No	21	0.2859	4.762	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-2	0.1	0.06	4	No	21	0.1402	33.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-20	1.048	0.5368	4	No	21	0.4632	4.762	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-21	0.14	0.07	4	No	21	0.05973	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-22	0.11	0.068	4	No	21	0.06042	47.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	DGWC-23	0.1722	0.08528	4	No	21	0.1391	9.524	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-4	0.17	0.096	4	No	21	0.1552	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-42	0.1	0.06	4	No	21	0.01912	90.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	DGWC-47	1.001	0.5136	4	No	21	0.4414	0	None	No	0.01	Param.
Fluoride (mg/L)	DGWC-48	0.9846	0.5551	4	No	21	0.4261	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	DGWC-5	0.5219	0.1966	4	No	20	0.432	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	DGWC-8	0.2998	0.1051	4	No	20	0.2188	15	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	DGWC-9	1.33	0.9596	4	No	19	0.3161	0	None	No	0.01	Param.
Fluoride (mg/L)	B-125D	0.1501	0.04018	4	No	4	0.02532	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	B-100	0.001	0.000088	0.015	No	9	0.0004215	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-101D	0.001	0.000065	0.015	No	8	0.0003306	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-102D	0.001	0.000037	0.015	No	9	0.0004757	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-104D	0.001	0.000051	0.015	No	9	0.0003425	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	B-107D	0.001	0.000044	0.015	No	8	0.000338	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-108D	0.0025	0.001	0.015	No	8	0.0005303	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	B-111D	0.001	0.000051	0.015	No	9	0.0004169	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	B-120D	0.001	0.00019	0.015	No	7	0.0003062	85.71	None	No	0.008	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	B-56	0.001	0.000091	0.015	No	9	0.000433	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	B-63	0.001	0.000047	0.015	No	9	0.0004146	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	B-77	0.001	0.00029	0.015	No	11	0.0004161	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	B-82	0.001	0.00011	0.015	No	10	0.0004307	70	None	No	0.011	NP (NDs)
Lead (mg/L)	B-83	0.001	0.00012	0.015	No	10	0.0004218	60	None	No	0.011	NP (NDs)
Lead (mg/L)	B-88	0.012	0.00035	0.015	No	9	0.003701	33.33	None	No	0.002	NP (normality)
Lead (mg/L)	B-93	0.001	0.00012	0.015	No	9	0.000388	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	DGWC-10	0.005	0.00013	0.015	No	19	0.002326	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-11	0.001	0.00012	0.015	No	19	0.0004077	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-12	0.001	0.00011	0.015	No	21	0.0002692	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-13	0.001	0.0002	0.015	No	19	0.0002689	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-14	0.001	0.000096	0.015	No	20	0.0003392	85	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-15	0.001	0.0002	0.015	No	20	0.0004053	70	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-17	0.001	0.00013	0.015	No	20	0.0004344	65	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-19	0.001	0.00026	0.015	No	20	0.0003943	75	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-2	0.001	0.000094	0.015	No	20	0.0004568	60	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-20	0.01	0.00047	0.015	No	20	0.004549	70	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-21	0.001	0.0002	0.015	No	20	0.000406	65	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-23	0.001	0.000066	0.015	No	20	0.0002088	95	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-4	0.001	0.0002	0.015	No	19	0.0003706	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-42	0.0003921	0.0001782	0.015	No	20	0.001077	30	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	DGWC-47	0.001	0.00053	0.015	No	20	0.0009812	35	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-48	0.0019	0.00093	0.015	No	20	0.001058	15	None	No	0.01	NP (normality)
Lead (mg/L)	DGWC-5	0.001	0.000063	0.015	No	19	0.0006039	52.63	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-8	0.001	0.00023	0.015	No	19	0.0003896	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	DGWC-9	0.005	0.00028	0.015	No	18	0.001841	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	B-100	0.03	0.0013	0.04	No	9	0.01227	22.22	None	No	0.002	NP (normality)
Lithium (mg/L)	B-101D	0.01493	0.009274	0.04	No	8	0.002666	0	None	No	0.01	Param.
Lithium (mg/L)	B-102D	0.01394	0.01031	0.04	No	9	0.00188	0	None	No	0.01	Param.
Lithium (mg/L)	B-104D	0.03953	0.03647	0.04	No	9	0.001581	0	None	No	0.01	Param.
Lithium (mg/L)	B-106D	0.005601	0.004799	0.04	No	8	0.000378	0	None	No	0.01	Param.
Lithium (mg/L)	B-107D	0.016	0.013	0.04	No	8	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	B-108D	0.016	0.014	0.04	No	8	0.0008864	0	None	No	0.004	NP (normality)
Lithium (mg/L)	B-111D	0.02653	0.0188	0.04	No	9	0.004	0	None	No	0.01	Param.
Lithium (mg/L)	**B-120D**	**0.0876**	**0.05211**	**0.04**	**Yes**	**7**	**0.01494**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	B-122D	0.014	0.013	0.04	No	4	0.0005	0	None	No	0.0625	NP (normality)
Lithium (mg/L)	B-56	0.005924	0.005188	0.04	No	9	0.0003812	0	None	No	0.01	Param.
Lithium (mg/L)	B-62	0.0094	0.0078	0.04	No	12	0.004749	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	B-63	0.0072	0.0052	0.04	No	10	0.006004	10	None	No	0.011	NP (normality)
Lithium (mg/L)	B-66	0.03	0.00073	0.04	No	9	0.009757	88.89	None	No	0.002	NP (NDs)
Lithium (mg/L)	B-77	0.03	0.0011	0.04	No	11	0.01446	45.45	None	No	0.006	NP (normality)
Lithium (mg/L)	B-82	0.03	0.00078	0.04	No	10	0.012	20	None	No	0.011	NP (normality)
Lithium (mg/L)	B-83	0.003149	0.001954	0.04	No	10	0.0007604	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	B-88	0.01085	0.001899	0.04	No	9	0.008531	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	B-92	0.01619	0.01031	0.04	No	6	0.002139	0	None	No	0.01	Param.
Lithium (mg/L)	B-93	0.013	0.01	0.04	No	9	0.001118	0	None	No	0.002	NP (normality)
Lithium (mg/L)	B-97	0.005124	0.00421	0.04	No	6	0.0003327	0	None	No	0.01	Param.
Lithium (mg/L)	B-98	0.03	0.00089	0.04	No	6	0.0118	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	DGWC-10	0.0053	0.0033	0.04	No	19	0.00671	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-11	0.0027	0.0018	0.04	No	19	0.005249	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-12	0.03	0.0011	0.04	No	21	0.01342	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-13	0.0037	0.003	0.04	No	19	0.006857	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-14	0.0044	0.0035	0.04	No	20	0.005581	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-15	0.0063	0.0057	0.04	No	19	0.0008467	0	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-17	0.03	0.0011	0.04	No	20	0.0136	70	None	No	0.01	NP (NDs)
Lithium (mg/L)	DGWC-19	0.0034	0.003	0.04	No	20	0.004912	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-2	0.0781	0.022	0.04	No	20	0.02885	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-20	0.01077	0.004021	0.04	No	20	0.006435	5	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	DGWC-21	0.0065	0.0056	0.04	No	20	0.004272	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-22	0.0044	0.0035	0.04	No	20	0.00474	5	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-23	0.009735	0.003508	0.04	No	20	0.0165	5	None	ln(x)	0.01	Param.
Lithium (mg/L)	DGWC-4	0.0037	0.0026	0.04	No	19	0.005039	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-42	0.0124	0.008914	0.04	No	20	0.003891	5	None	ln(x)	0.01	Param.
Lithium (mg/L)	**DGWC-47**	**0.06936**	**0.05327**	**0.04**	**Yes**	**20**	**0.01417**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DGWC-48**	**0.1208**	**0.1016**	**0.04**	**Yes**	**20**	**0.01689**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	DGWC-5	0.008	0.0046	0.04	No	19	0.004655	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-8	0.0066	0.0036	0.04	No	19	0.004786	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	DGWC-9	0.02864	0.02485	0.04	No	18	0.003134	5.556	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	B-125D	0.078	0.028	0.04	No	5	0.02478	0	None	No	0.031	NP (normality)
Mercury (mg/L)	B-100	0.0002	0.00011	0.002	No	8	0.00003182	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-101D	0.00029	0.00014	0.002	No	8	0.00004069	75	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-104D	0.0002	0.000079	0.002	No	9	0.00004033	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-107D	0.0002	0.00016	0.002	No	8	0.00001414	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-108D	0.0002	0.00014	0.002	No	8	0.00002121	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	B-111D	0.0002	0.000094	0.002	No	9	0.00003533	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-56	0.00034	0.00016	0.002	No	9	0.00005622	66.67	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-66	0.00029	0.0002	0.002	No	9	0.00003	88.89	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-82	0.0002	0.0002	0.002	No	10	0.00002846	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	B-88	0.0002	0.0001	0.002	No	9	0.00004197	77.78	None	No	0.002	NP (NDs)
Mercury (mg/L)	B-92	0.0001669	0.0001431	0.002	No	6	0.00002251	33.33	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	B-93	0.0002109	0.0001094	0.002	No	9	0.00005207	33.33	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	DGWC-10	0.0021	0.00009	0.002	No	19	0.0004448	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-11	0.00048	0.00008	0.002	No	19	0.00008628	78.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-12	0.0002	0.00009	0.002	No	21	0.00005939	71.43	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-13	0.0002	0.00009	0.002	No	19	0.00003798	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-14	0.0002	0.00008	0.002	No	20	0.00005031	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-15	0.0002	0.00006	0.002	No	20	0.0000313	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-17	0.0002	0.000086	0.002	No	20	0.00005983	55	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-19	0.0002	0.00013	0.002	No	20	0.00005286	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-2	0.00064	0.000083	0.002	No	20	0.000112	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-20	0.0002	0.00009	0.002	No	20	0.00004278	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-21	0.0002	0.00012	0.002	No	20	0.00005743	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-22	0.0002	0.00014	0.002	No	20	0.00005149	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-23	0.0002	0.00015	0.002	No	20	0.00004962	45	None	No	0.01	NP (normality)
Mercury (mg/L)	DGWC-4	0.00022	0.00013	0.002	No	19	0.0001014	73.68	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-42	0.0002	0.00004	0.002	No	20	0.00003578	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-48	0.0002	0.00006	0.002	No	20	0.0000313	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-5	0.0002479	0.0001341	0.002	No	19	0.0001102	10.53	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	DGWC-8	0.0002	0.00009	0.002	No	19	0.00005805	63.16	None	No	0.01	NP (NDs)
Mercury (mg/L)	DGWC-9	0.0002	0.00014	0.002	No	18	0.00008025	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	B-100	0.19	0.01	0.1	No	9	0.06	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-101D	0.01	0.0022	0.1	No	8	0.002758	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-102D	0.01	0.0015	0.1	No	9	0.002833	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-104D	0.01	0.00083	0.1	No	9	0.004509	66.67	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-108D	0.01	0.00078	0.1	No	8	0.00326	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	B-111D	0.009773	0.005243	0.1	No	9	0.002535	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	B-120D	0.01	0.00089	0.1	No	7	0.003443	85.71	None	No	0.008	NP (NDs)
Molybdenum (mg/L)	B-122D	0.01	0.001	0.1	No	4	0.004467	25	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	B-66	0.01	0.0015	0.1	No	9	0.003683	77.78	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-82	0.01	0.01	0.1	No	10	0.002906	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	B-88	0.01	0.0012	0.1	No	9	0.00388	77.78	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	B-98	0.01	0.00075	0.1	No	6	0.003651	16.67	None	No	0.0155	NP (normality)
Molybdenum (mg/L)	DGWC-13	0.01978	0.01076	0.1	No	19	0.00937	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	DGWC-2	0.01	0.002	0.1	No	20	0.003801	30	None	No	0.01	NP (normality)
Molybdenum (mg/L)	DGWC-22	0.01	0.00097	0.1	No	20	0.002019	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DGWC-23	0.01034	0.007103	0.1	No	20	0.002848	0	None	No	0.01	Param.
Molybdenum (mg/L)	DGWC-4	0.00599	0.00421	0.1	No	19	0.00152	5.263	None	No	0.01	Param.
Selenium (mg/L)	B-100	0.005	0.0019	0.05	No	9	0.001033	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-101D	0.005	0.0031	0.05	No	8	0.0006718	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-104D	0.005	0.0015	0.05	No	9	0.001691	44.44	None	No	0.002	NP (normality)
Selenium (mg/L)	B-108D	0.025	0.0016	0.05	No	8	0.00734	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	B-111D	0.005	0.0022	0.05	No	9	0.0009333	88.89	None	No	0.002	NP (NDs)
Selenium (mg/L)	B-120D	0.005267	0.001705	0.05	No	7	0.001499	0	None	No	0.01	Param.
Selenium (mg/L)	B-56	0.01895	0.007557	0.05	No	9	0.006981	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	B-77	0.005	0.005	0.05	No	11	0.000995	90.91	None	No	0.006	NP (NDs)
Selenium (mg/L)	B-82	0.005	0.0018	0.05	No	10	0.001517	40	None	No	0.011	NP (normality)
Selenium (mg/L)	B-83	0.02501	0.01503	0.05	No	10	0.00559	0	None	No	0.01	Param.
Selenium (mg/L)	B-88	0.003349	0.001963	0.05	No	9	0.0007178	11.11	None	No	0.01	Param.
Selenium (mg/L)	B-92	0.01688	0.001484	0.05	No	6	0.005605	0	None	No	0.01	Param.
Selenium (mg/L)	B-93	0.01917	0.00629	0.05	No	9	0.009469	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	B-97	0.003878	0.001788	0.05	No	6	0.0007607	0	None	No	0.01	Param.
Selenium (mg/L)	B-98	0.005	0.0033	0.05	No	6	0.000694	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	DGWC-10	0.04565	0.02217	0.05	No	19	0.02005	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-12	0.005	0.0019	0.05	No	21	0.002017	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-13	0.004094	0.002191	0.05	No	19	0.002816	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-14	0.005	0.0016	0.05	No	20	0.002235	55	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	DGWC-15	0.01	0.0018	0.05	No	20	0.001638	90	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-17	0.008592	0.006434	0.05	No	20	0.002149	10	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-19	0.00779	0.00515	0.05	No	20	0.002324	10	None	No	0.01	Param.
Selenium (mg/L)	DGWC-2	0.00421	0.002321	0.05	No	20	0.001918	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-20	0.07406	0.04006	0.05	No	20	0.02993	0	None	No	0.01	Param.
Selenium (mg/L)	DGWC-22	0.005	0.0017	0.05	No	20	0.0007379	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-4	0.005	0.0014	0.05	No	19	0.0008259	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-47	0.009399	0.003679	0.05	No	20	0.00577	10	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	DGWC-48	0.005853	0.002472	0.05	No	20	0.003077	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	DGWC-5	0.03151	0.007147	0.05	No	19	0.03791	5.263	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	DGWC-8	0.0069	0.0031	0.05	No	19	0.001831	63.16	None	No	0.01	NP (NDs)
Selenium (mg/L)	DGWC-9	0.1083	0.04482	0.05	No	18	0.05719	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-104D	0.001	0.00028	0.002	No	9	0.00024	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-56	0.0003565	0.0001864	0.002	No	9	0.00009662	11.11	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	B-66	0.001	0.00021	0.002	No	9	0.0002633	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-82	0.001	0.00011	0.002	No	10	0.0003776	80	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-83	0.001	0.001	0.002	No	10	0.0002935	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	B-88	0.001	0.0002	0.002	No	9	0.0002667	88.89	None	No	0.002	NP (NDs)
Thallium (mg/L)	B-92	0.001	0.0002	0.002	No	6	0.0004105	66.67	None	No	0.0155	NP (NDs)
Thallium (mg/L)	DGWC-10	0.005	0.00036	0.002	No	19	0.002067	31.58	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-12	0.001	0.000091	0.002	No	21	0.0004438	61.9	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-14	0.001	0.00056	0.002	No	20	0.00009839	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-17	0.001	0.00018	0.002	No	20	0.0004193	45	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-19	0.000554	0.000491	0.002	No	20	0.00005552	5	None	No	0.01	Param.
Thallium (mg/L)	DGWC-20	0.01	0.0006	0.002	No	20	0.00426	35	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-22	0.001	0.00007	0.002	No	20	0.0004146	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-4	0.001	0.000073	0.002	No	19	0.0002127	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-42	0.001	0.00028	0.002	No	20	0.0003913	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-47	0.00032	0.0002	0.002	No	20	0.0002807	15	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-48	0.001	0.00009	0.002	No	20	0.0004082	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-5	0.001	0.0002	0.002	No	19	0.0003331	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	DGWC-8	0.001	0.0002	0.002	No	19	0.0003897	36.84	None	No	0.01	NP (normality)
Thallium (mg/L)	DGWC-9	0.005	0.00044	0.002	No	18	0.002276	44.44	None	No	0.01	NP (normality)

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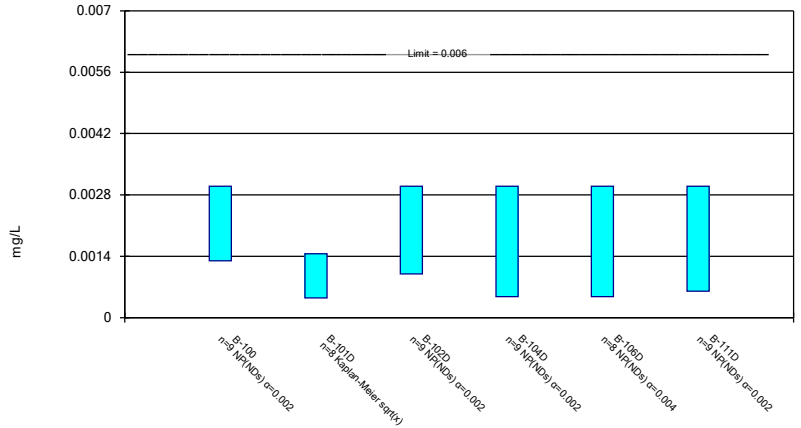
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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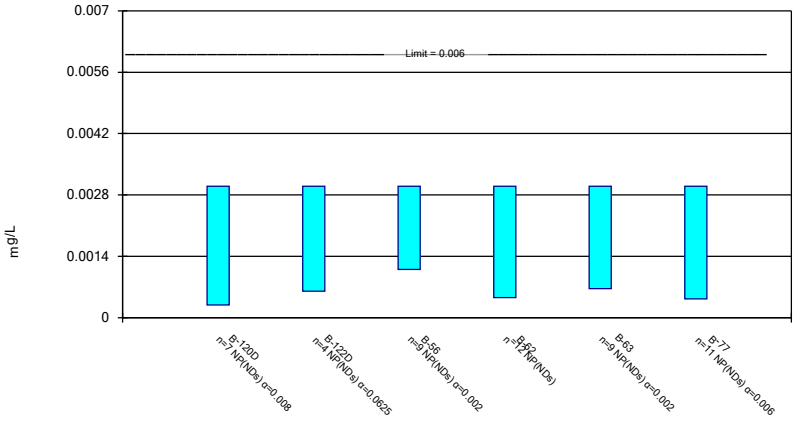
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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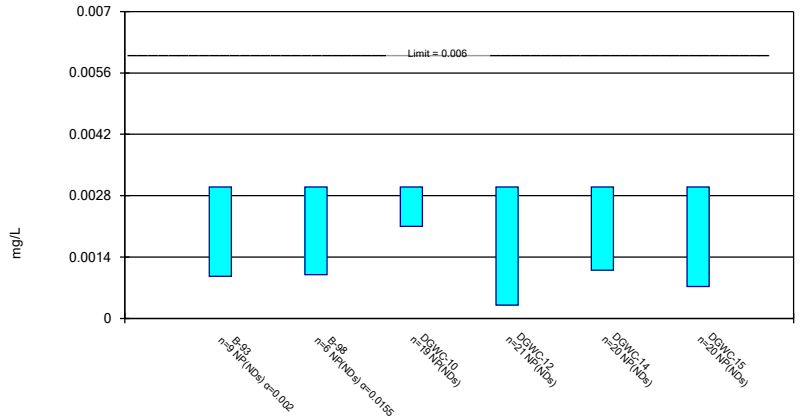
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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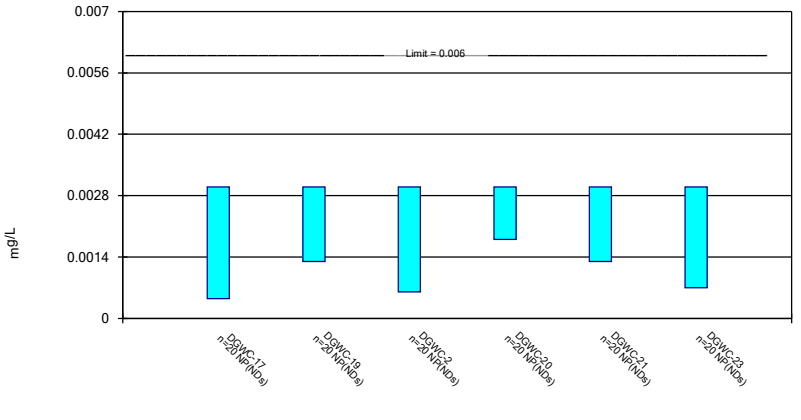
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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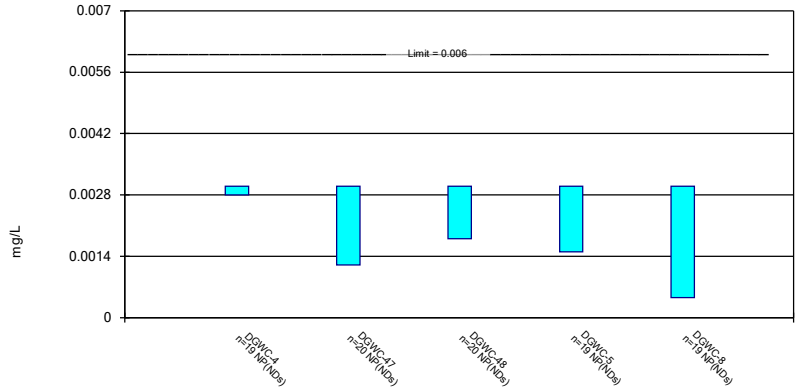
Plant McDonough Client: Southern Company Data: McDonough AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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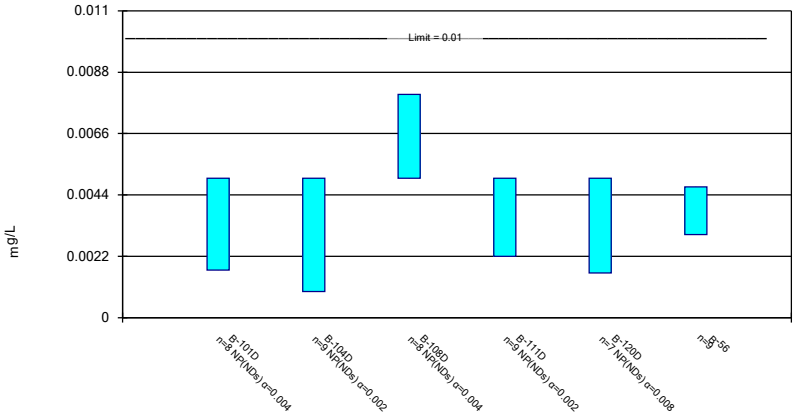
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

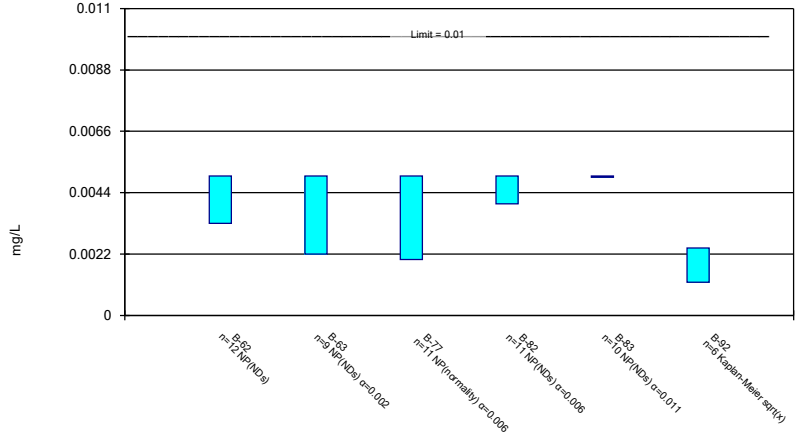
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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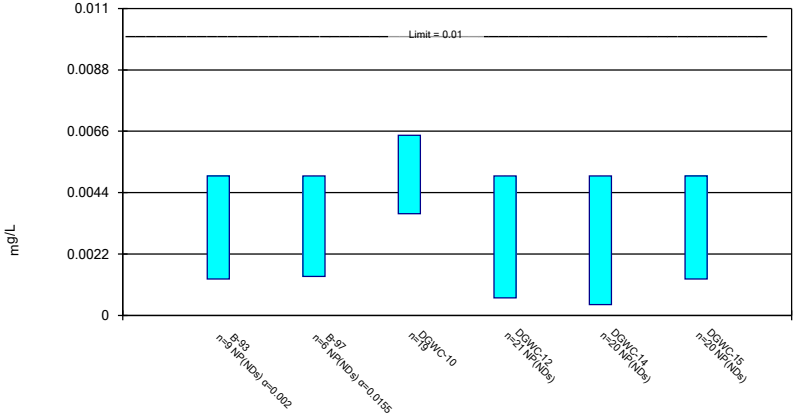
Plant McDonough Client: Southern Company Data: McDonough AP

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.



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Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

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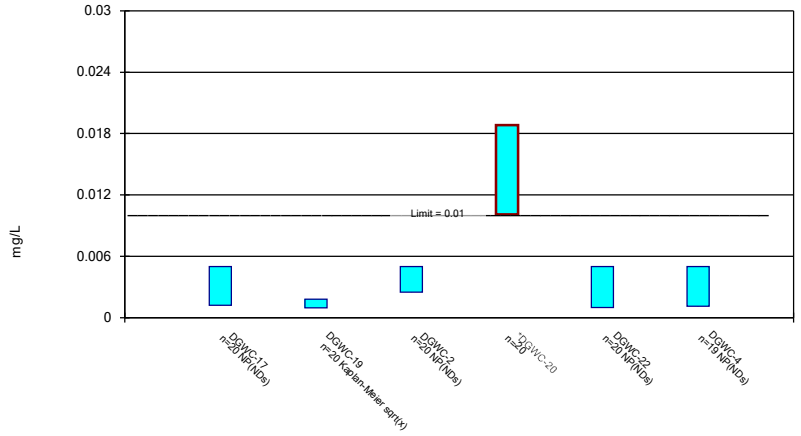

Constituent: Arsenic Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

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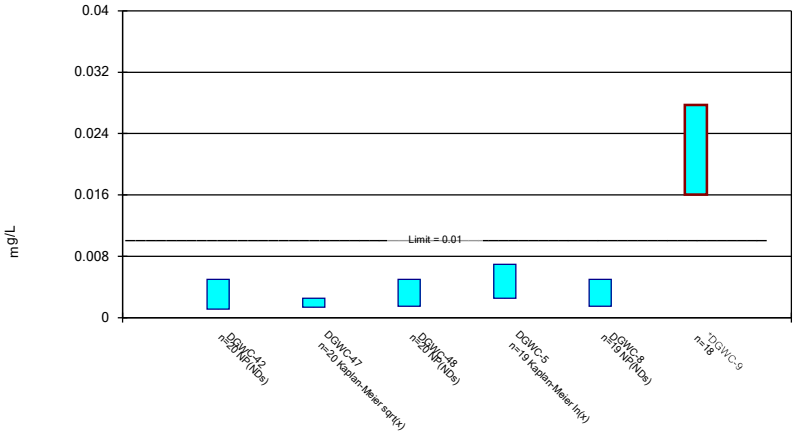
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

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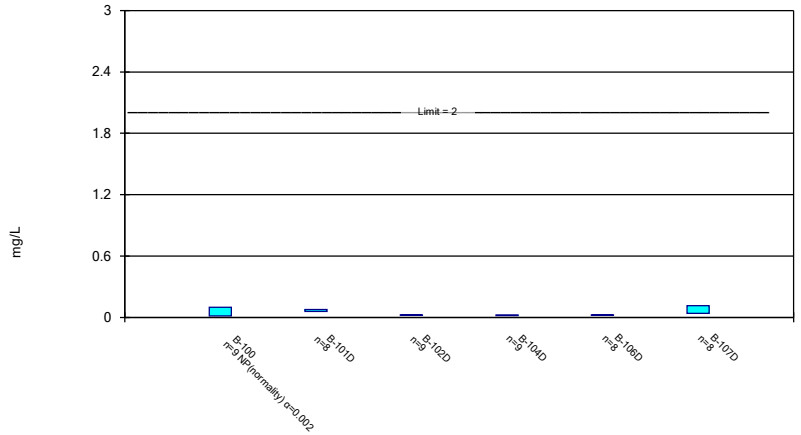
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

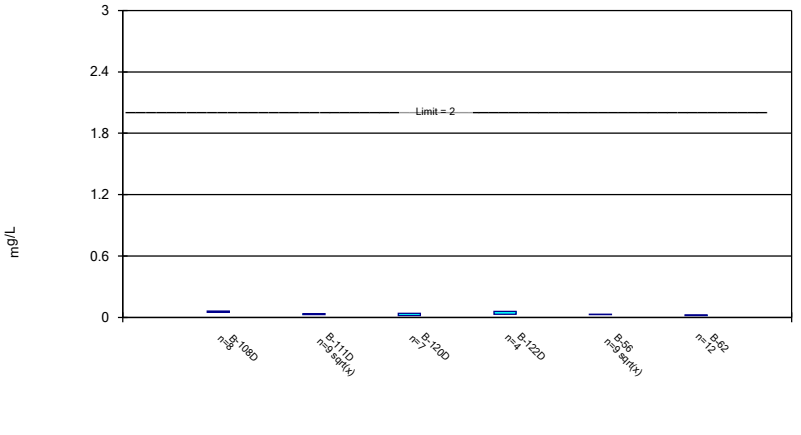


Constituent: Barium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

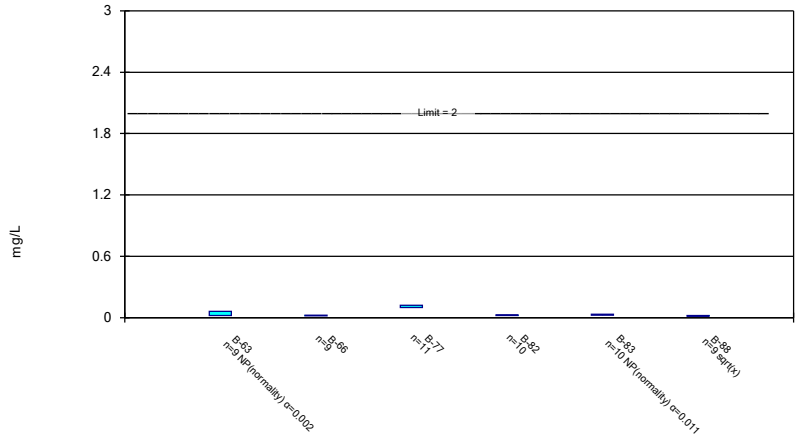


Constituent: Barium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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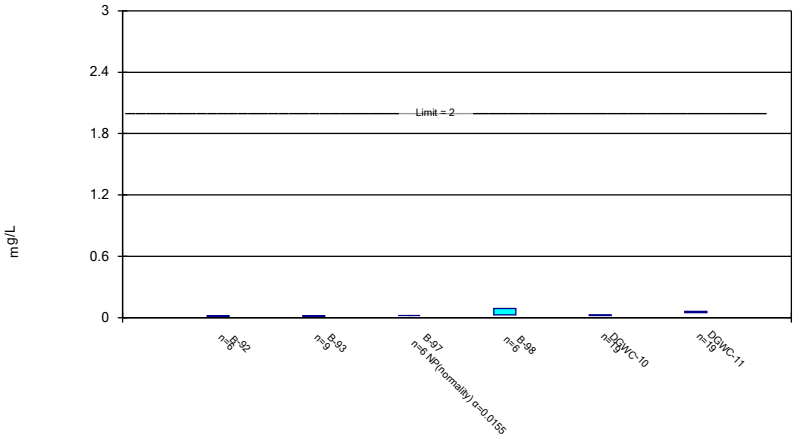
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

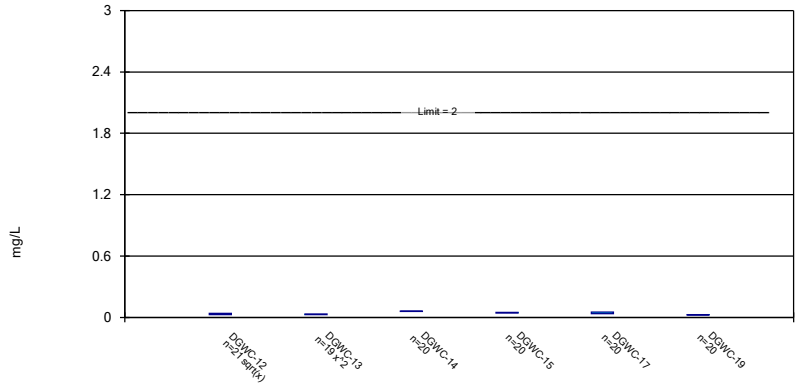


Constituent: Barium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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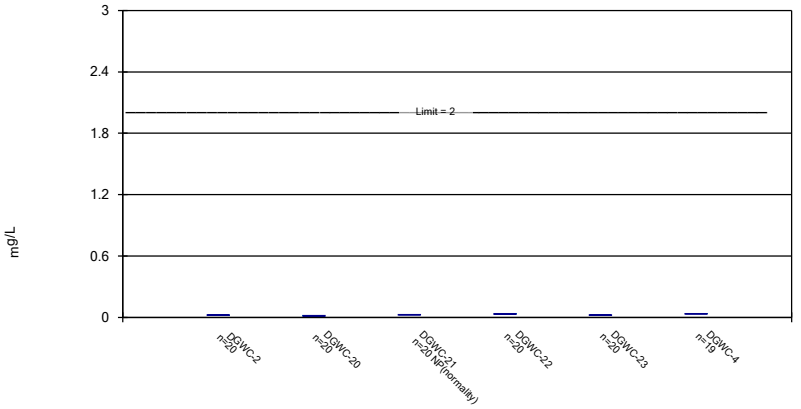
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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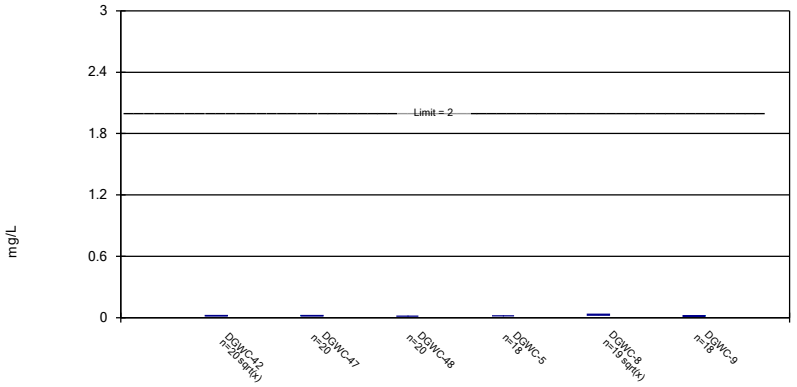
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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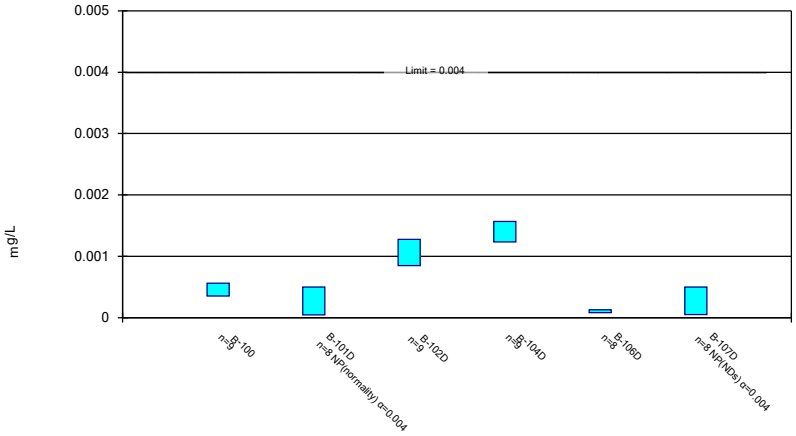
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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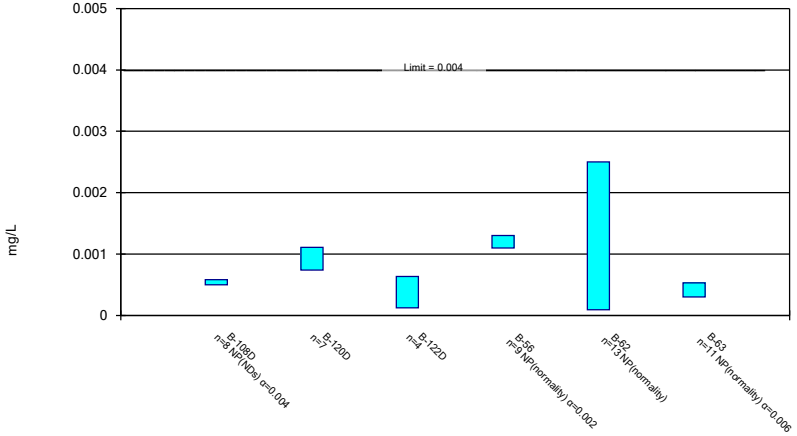
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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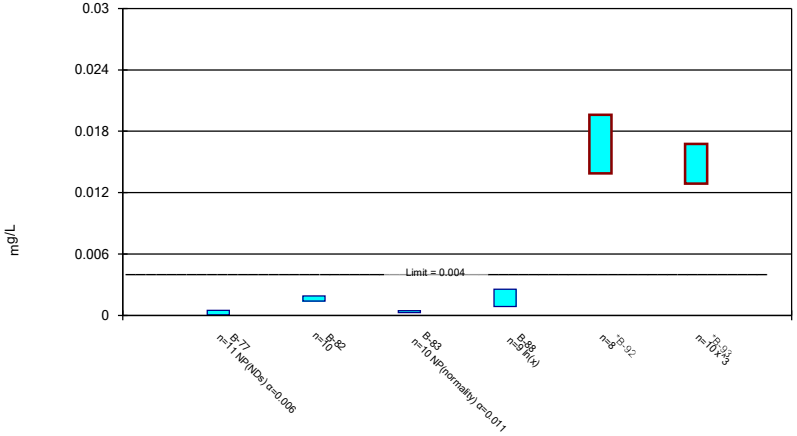
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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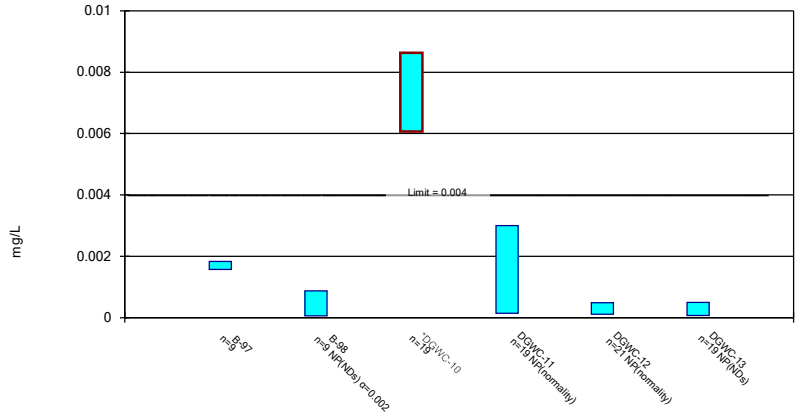

Constituent: Beryllium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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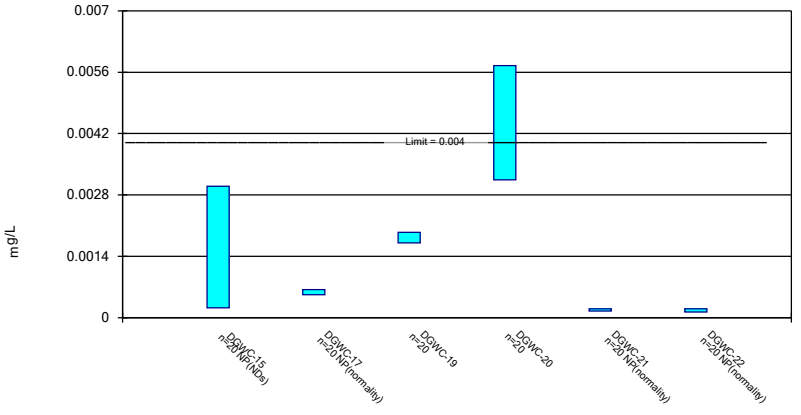

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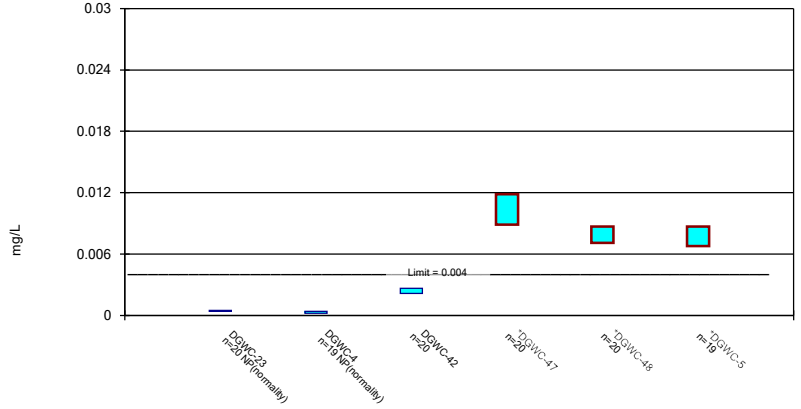

Constituent: Beryllium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
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Sanitas™ v.10.0.16 . UG

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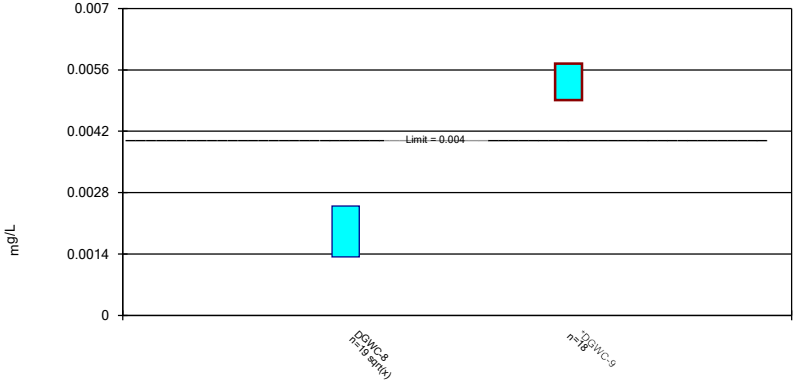

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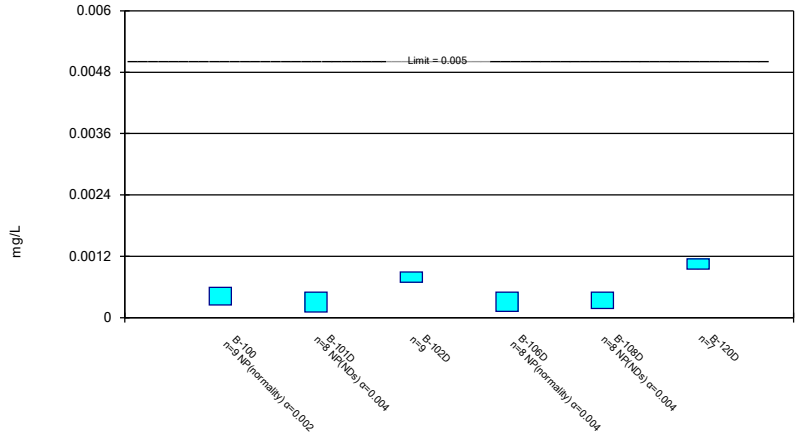
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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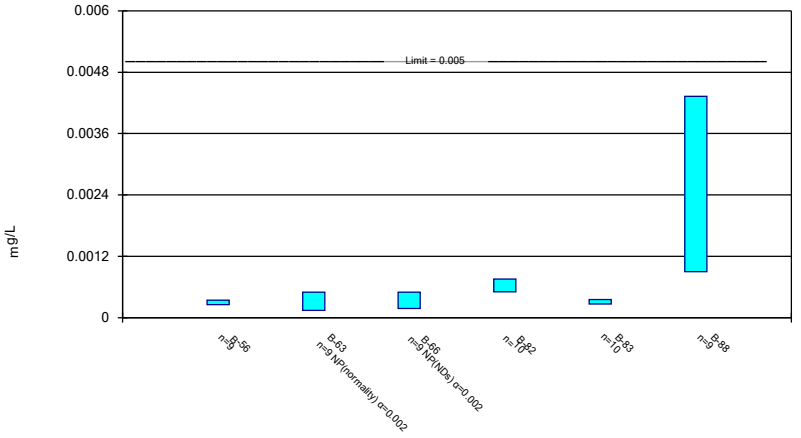

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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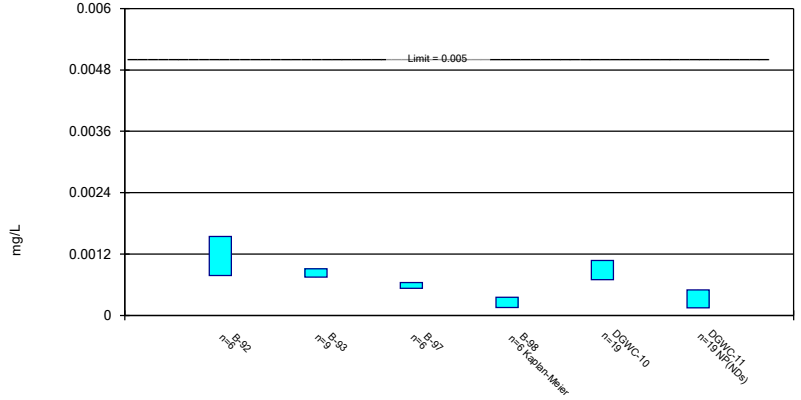

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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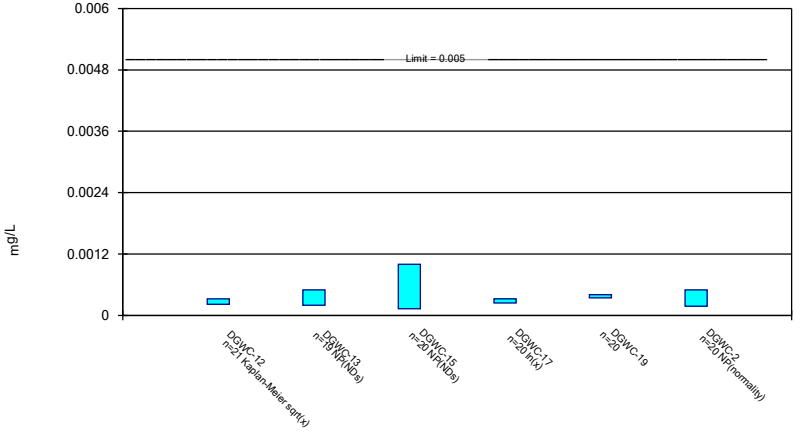
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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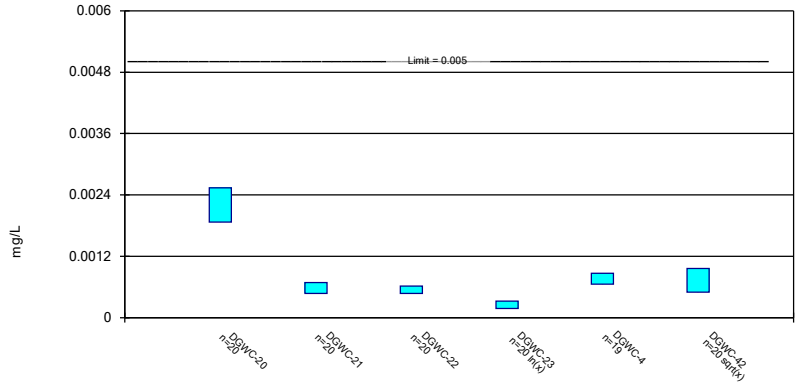
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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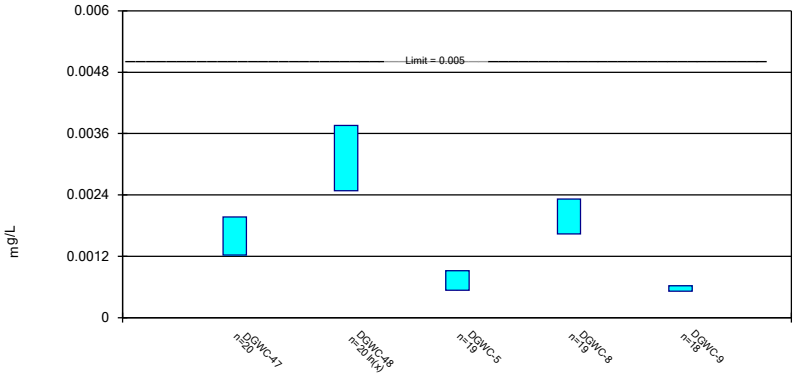
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

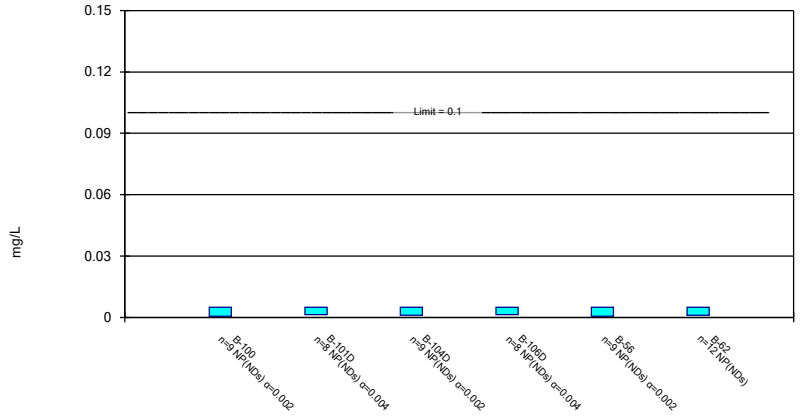


Constituent: Cadmium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

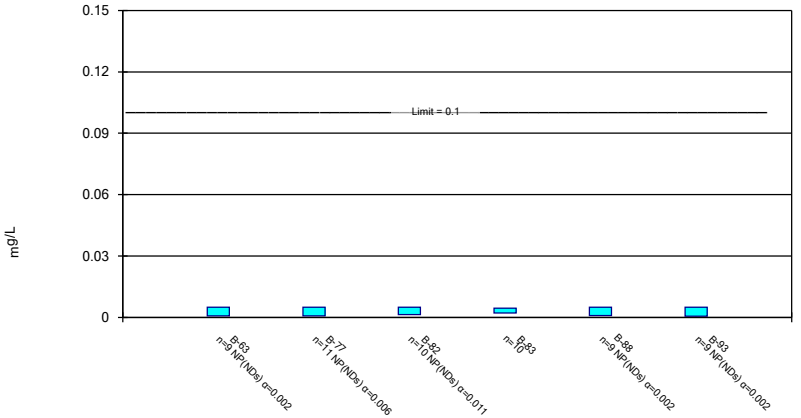


Constituent: Chromium Analysis Run 4/3/2024 4:32 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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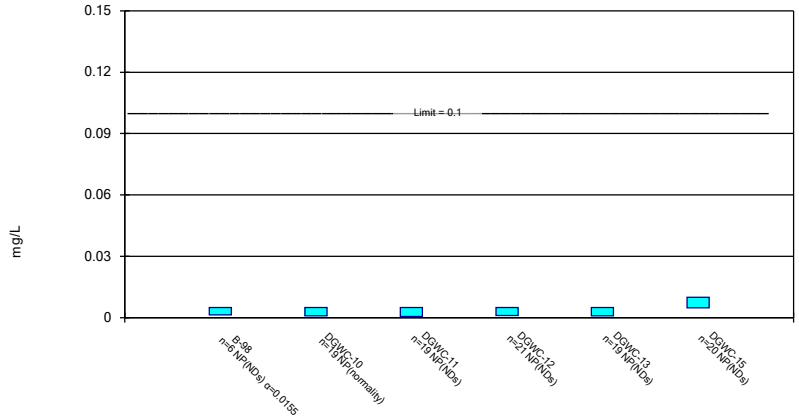
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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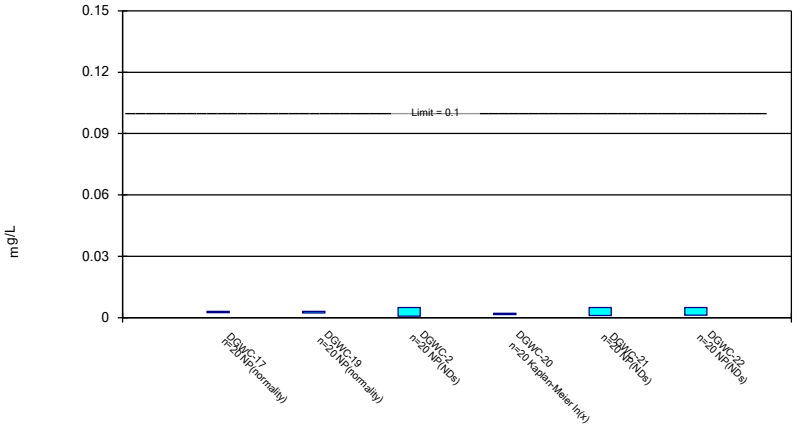

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Sanitas™ v.10.0.16 . UG

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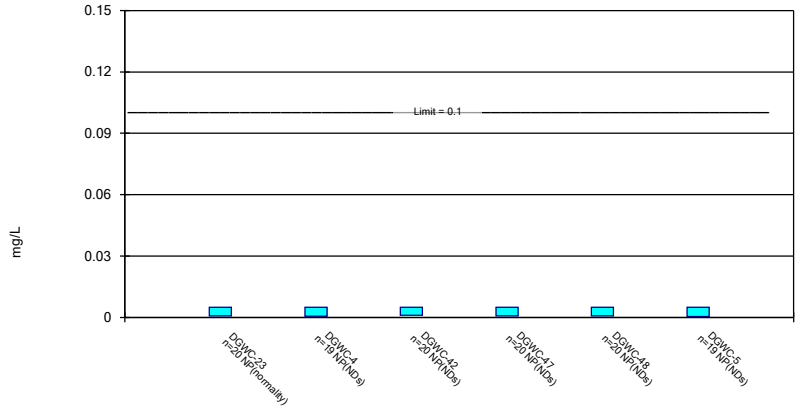

Constituent: Chromium Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
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Sanitas™ v.10.0.16 . UG

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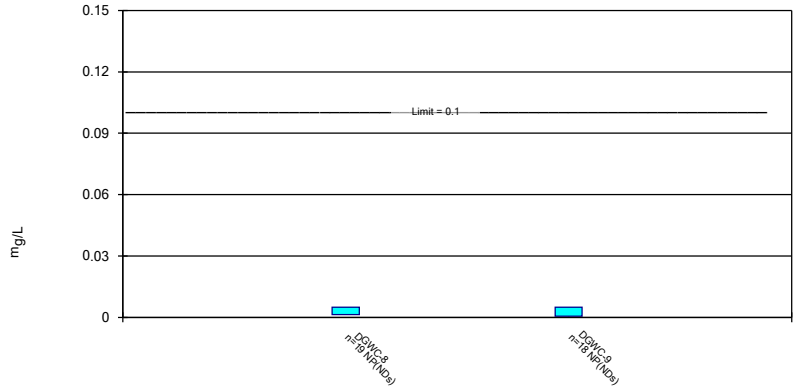
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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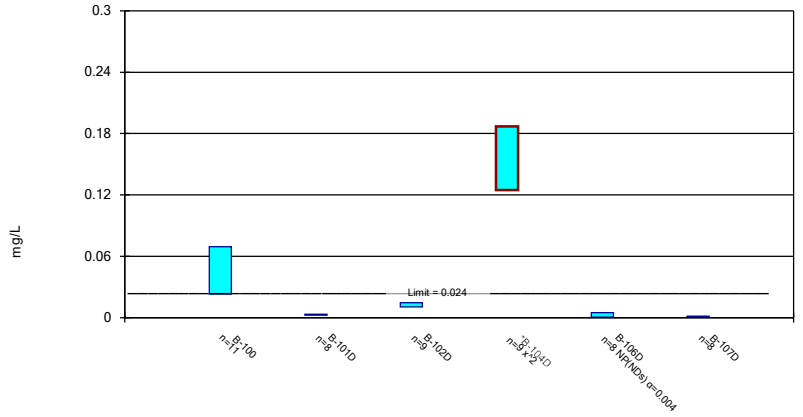
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

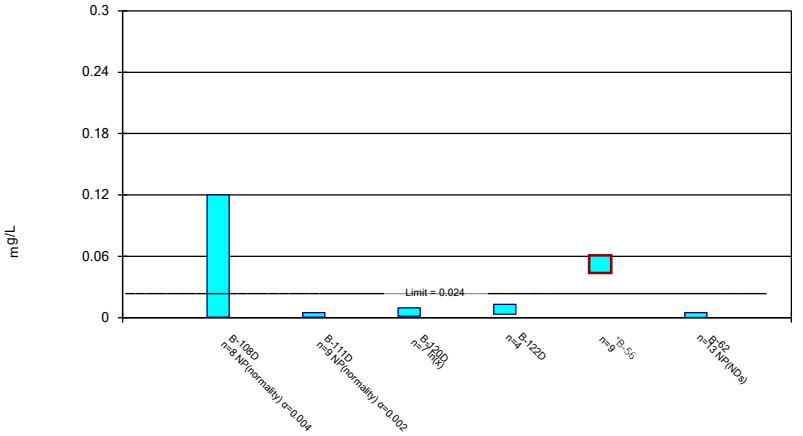


Constituent: Cobalt Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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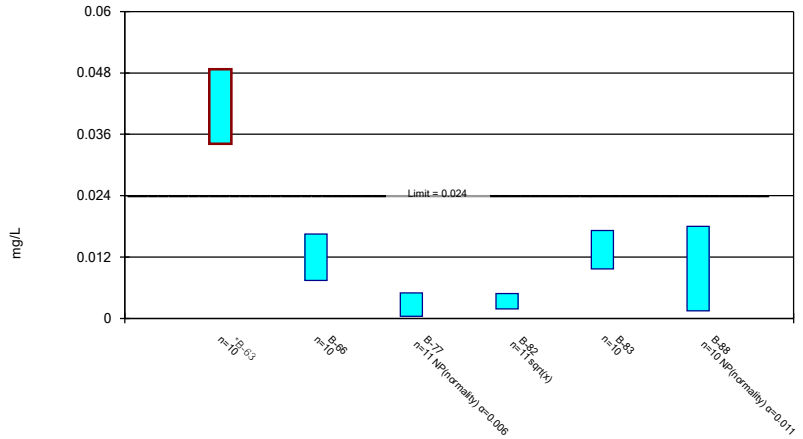
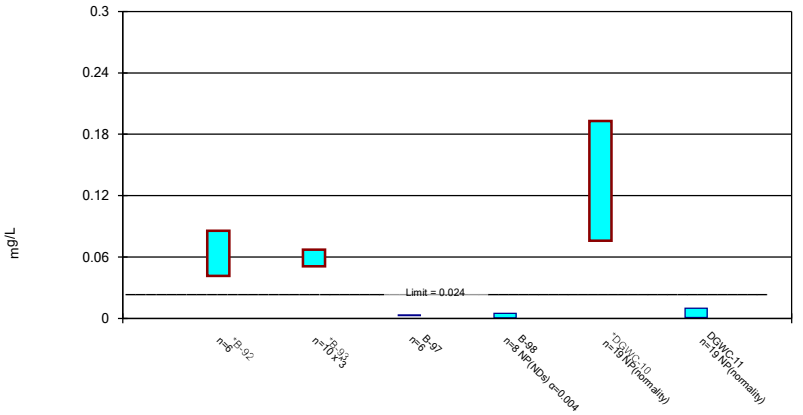


Constituent: Cobalt Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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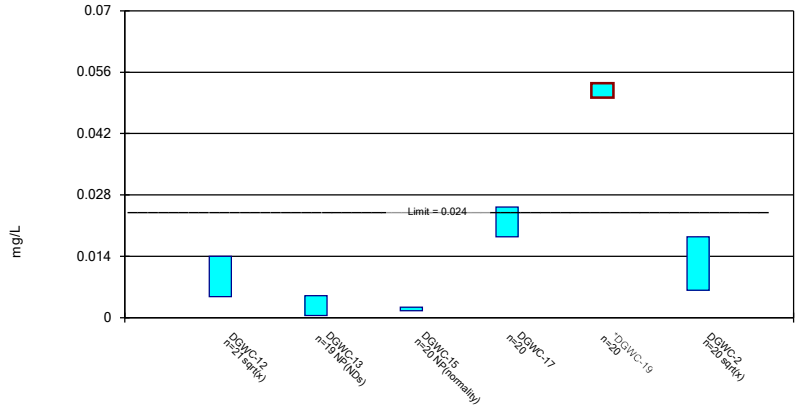

Constituent: Cobalt Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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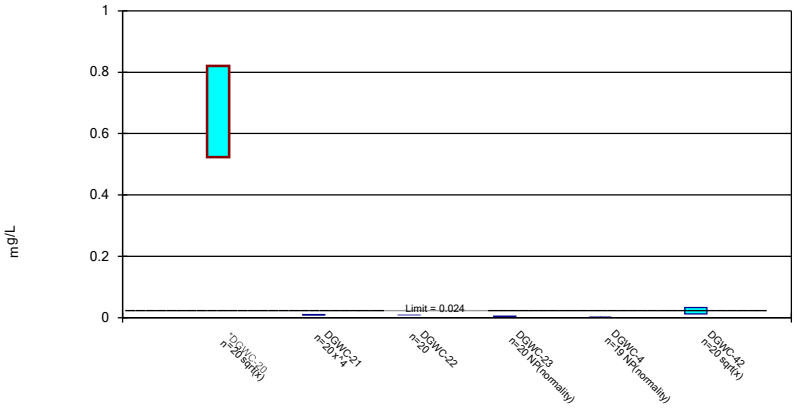

Constituent: Cobalt Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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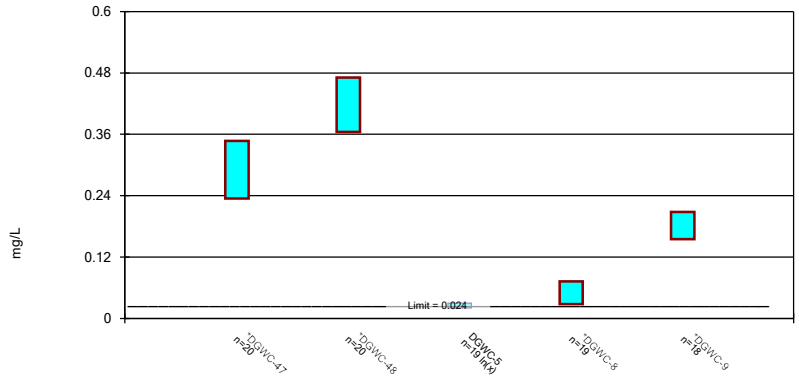
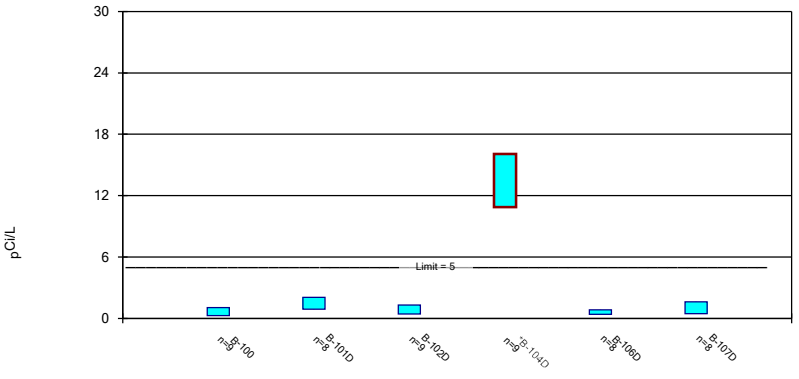


Constituent: Cobalt Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

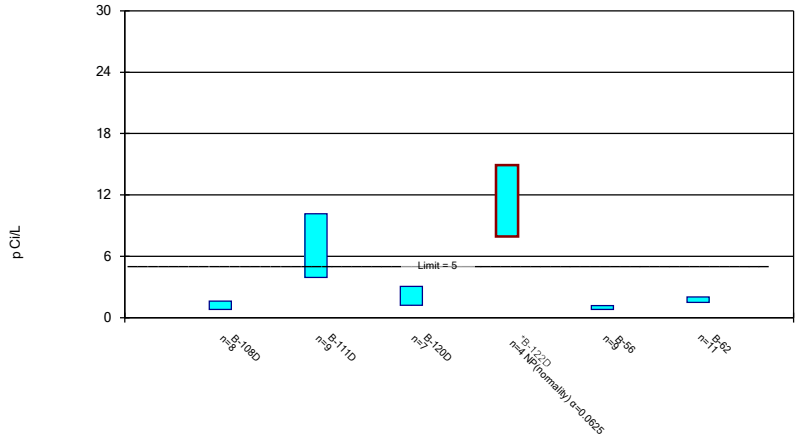


Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Inter
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



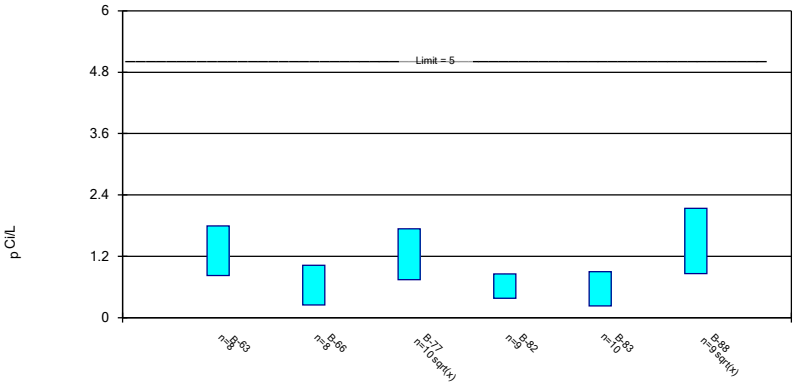
Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Inter

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



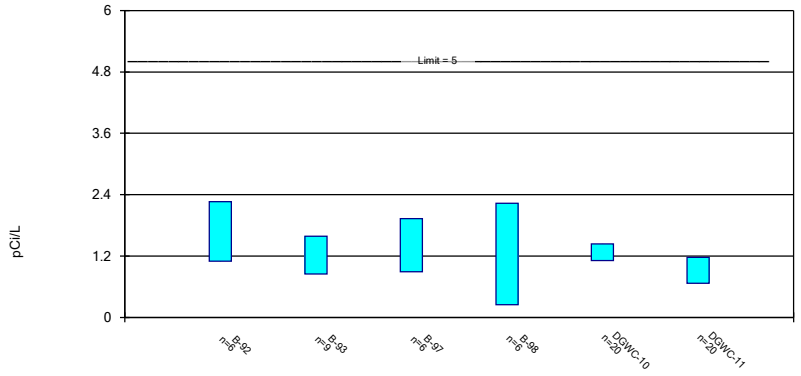
Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Inter

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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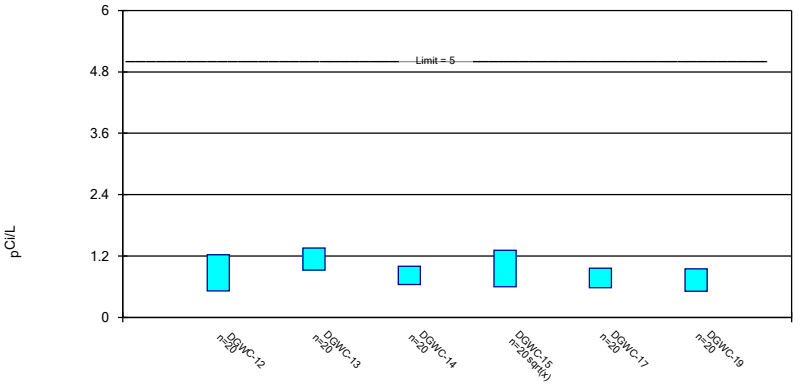
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Inter

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

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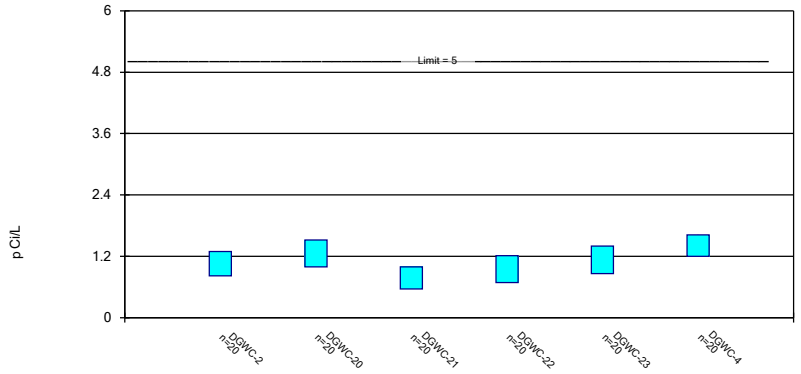
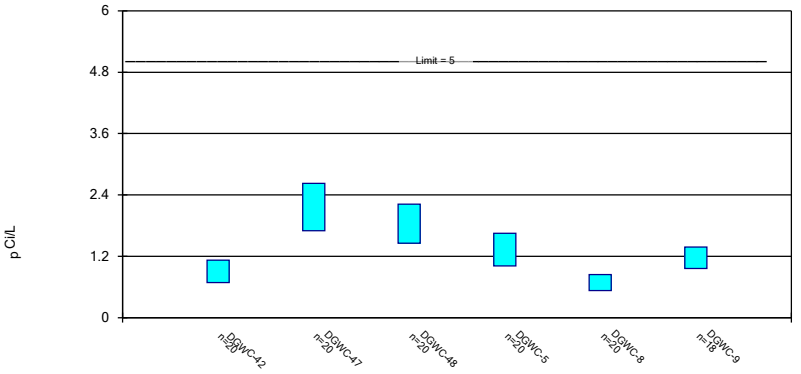


Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Inter
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

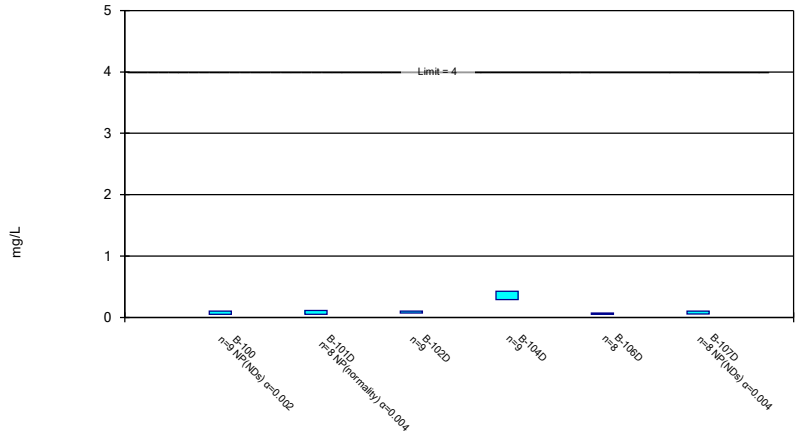


Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Inter
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

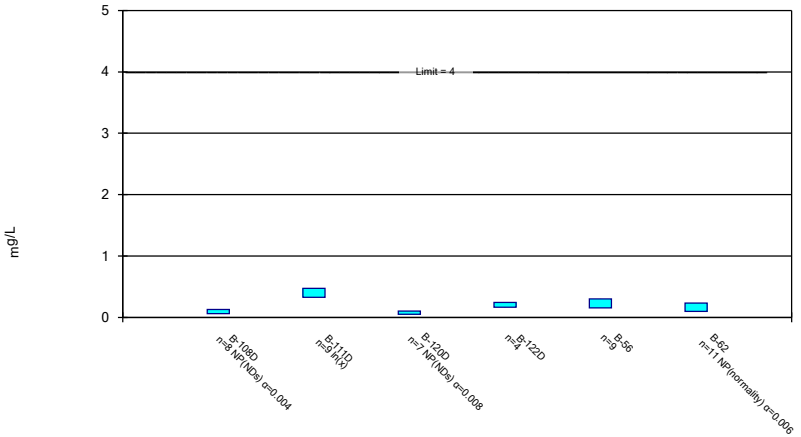


Constituent: Fluoride Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

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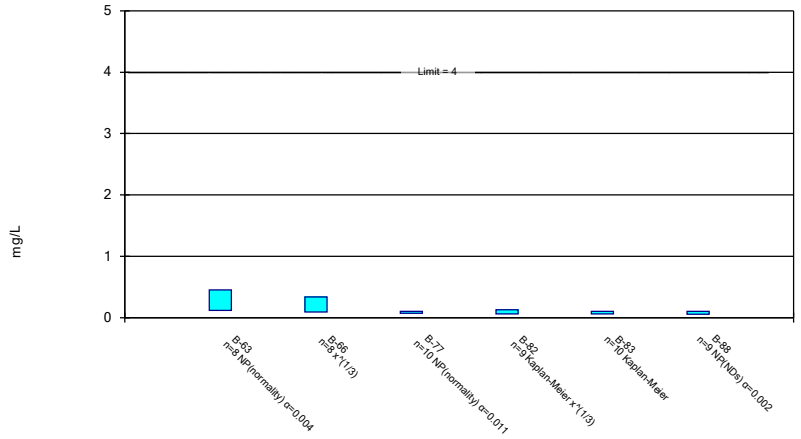

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Plant McDonough Client: Southern Company Data: McDonough AP

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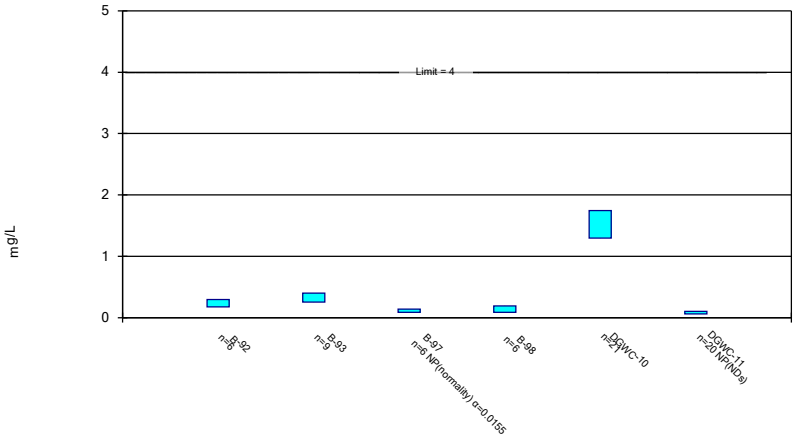

Constituent: Fluoride Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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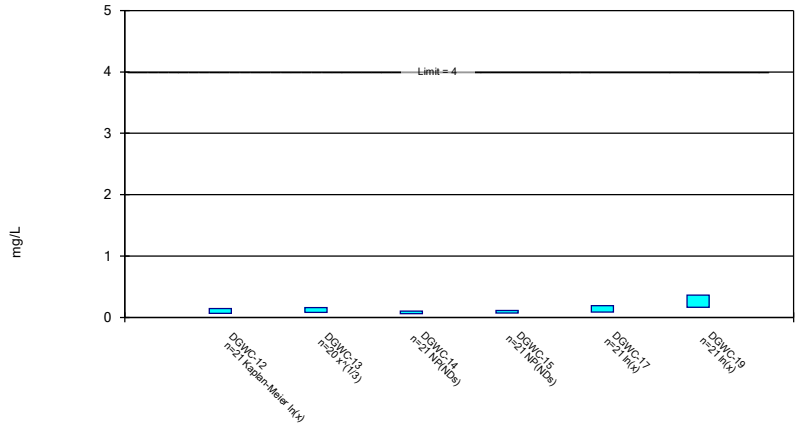

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Plant McDonough Client: Southern Company Data: McDonough AP

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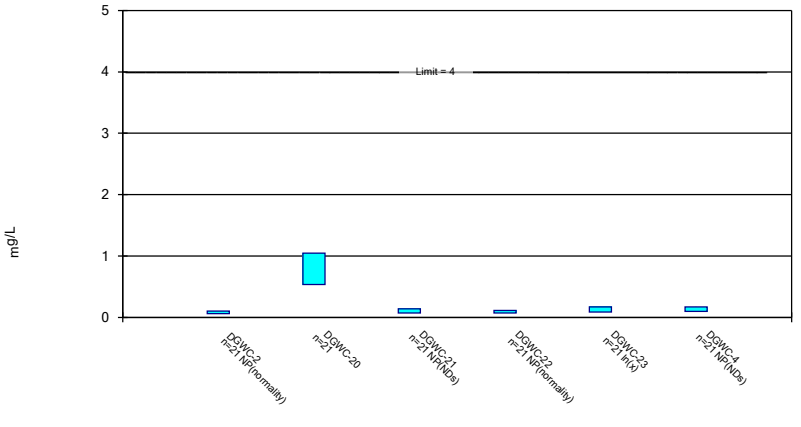

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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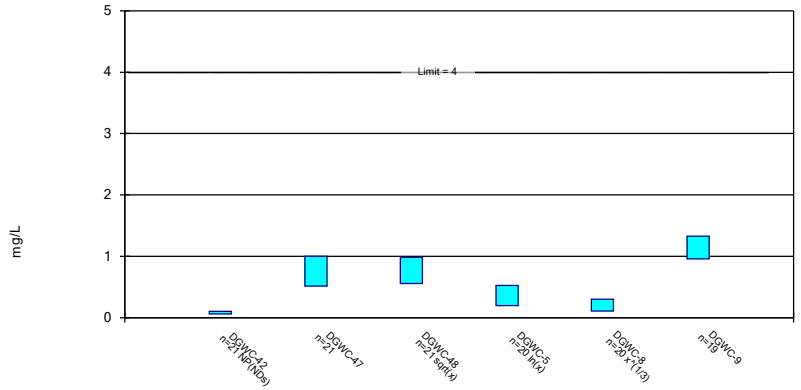

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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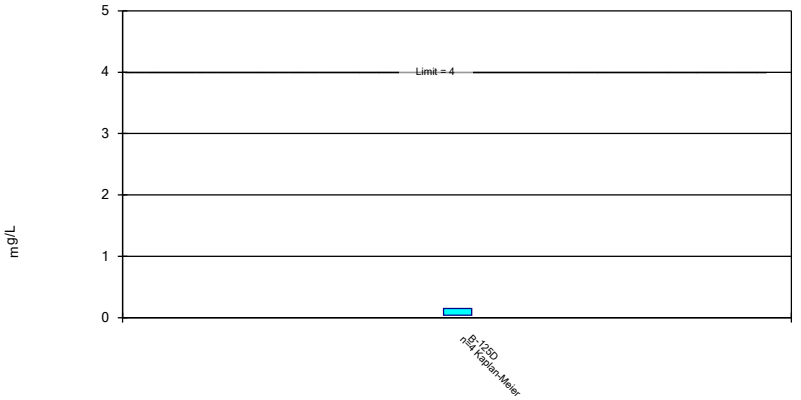
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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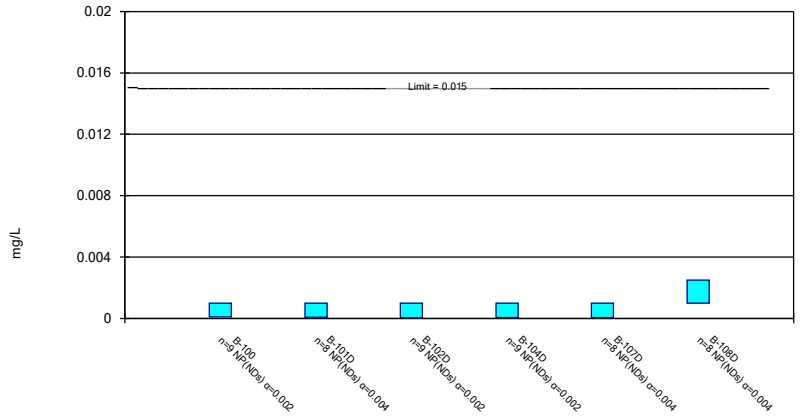
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

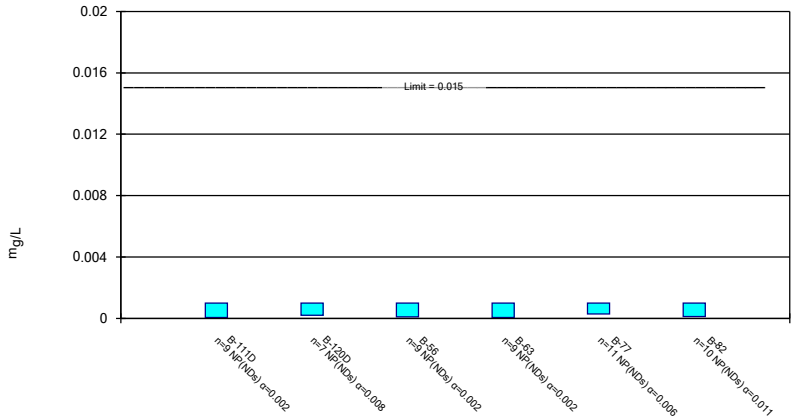


Constituent: Lead Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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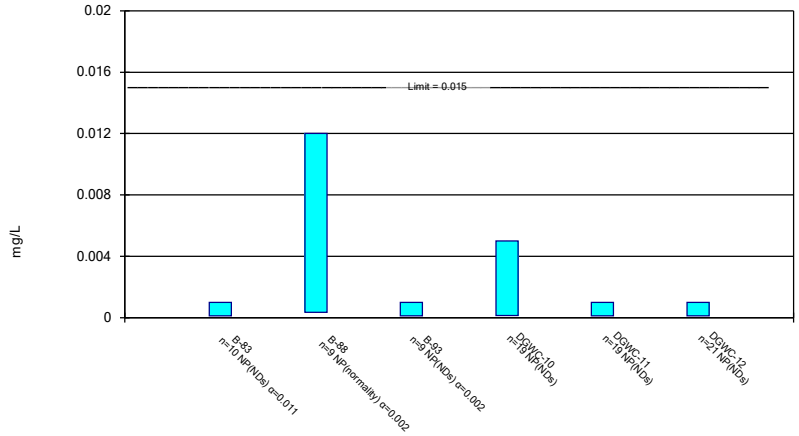

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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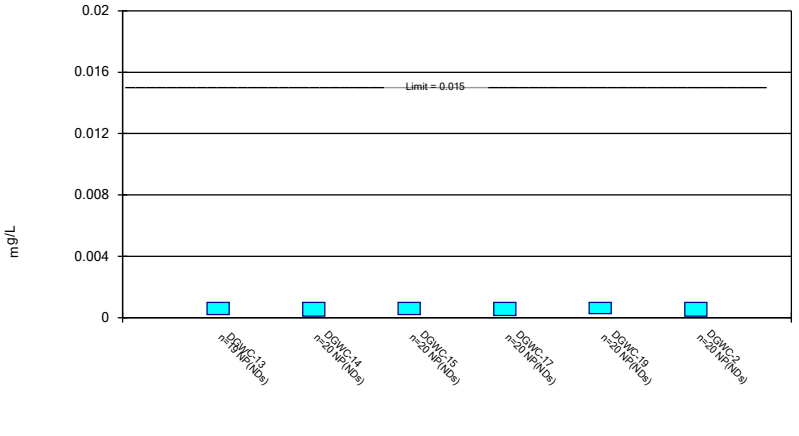
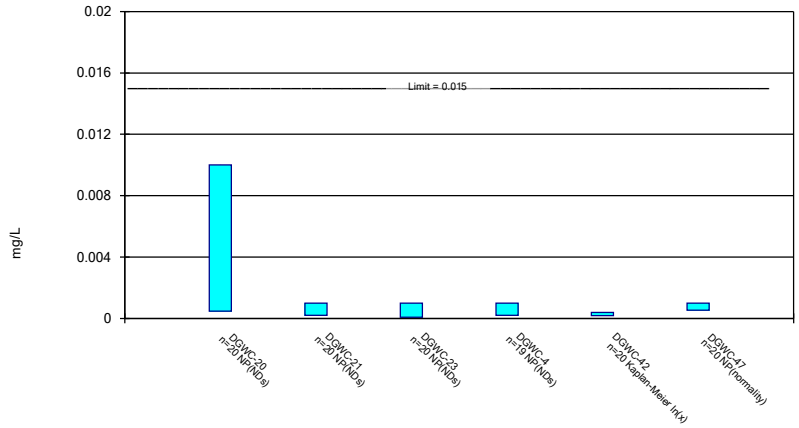


Constituent: Lead Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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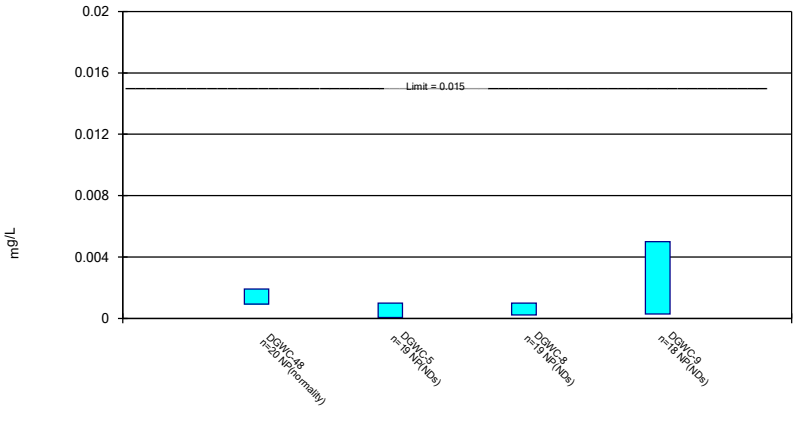

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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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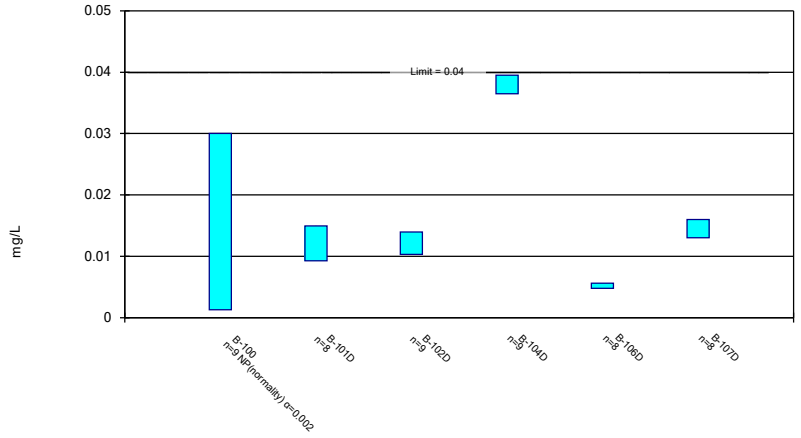

Constituent: Lithium Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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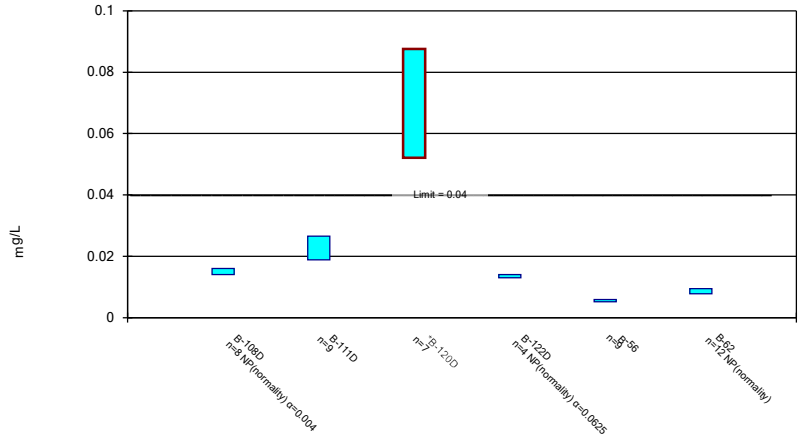

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Plant McDonough Client: Southern Company Data: McDonough AP

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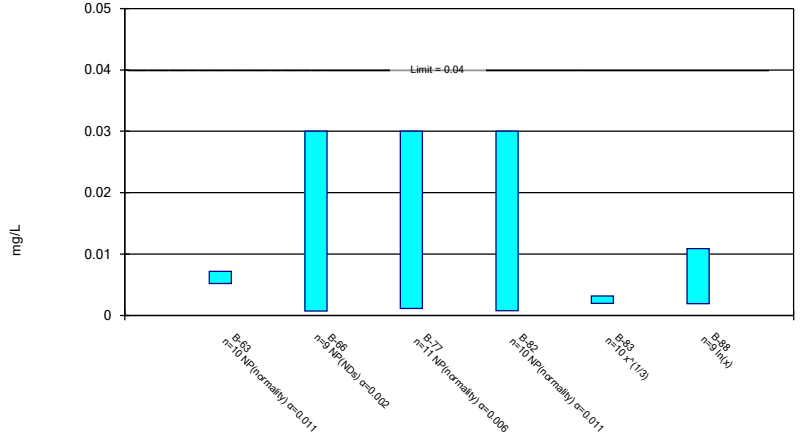

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Plant McDonough Client: Southern Company Data: McDonough AP

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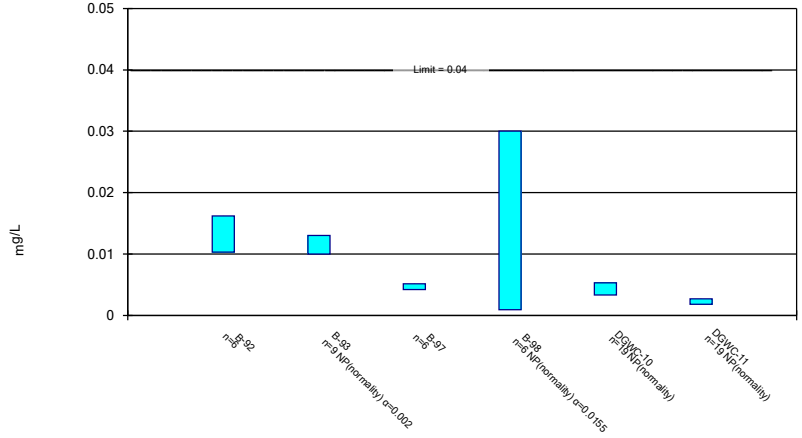
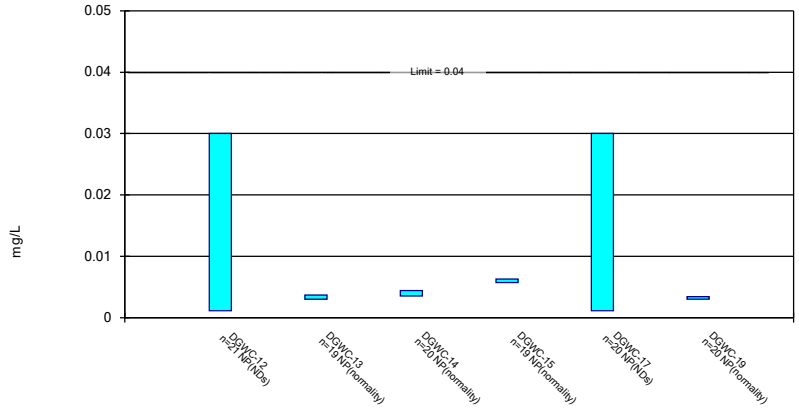


Constituent: Lithium Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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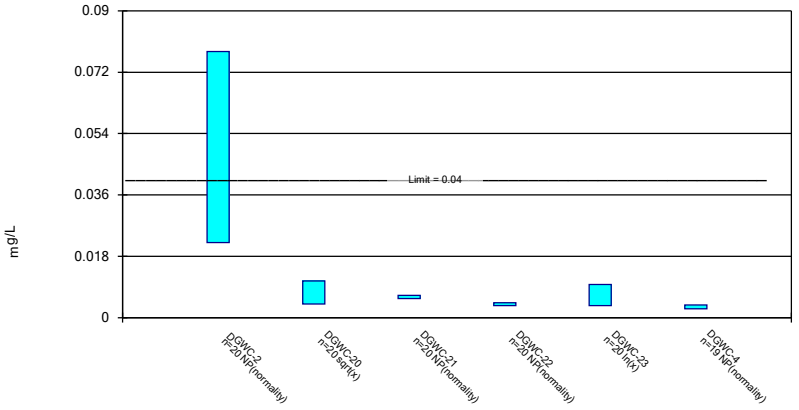
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

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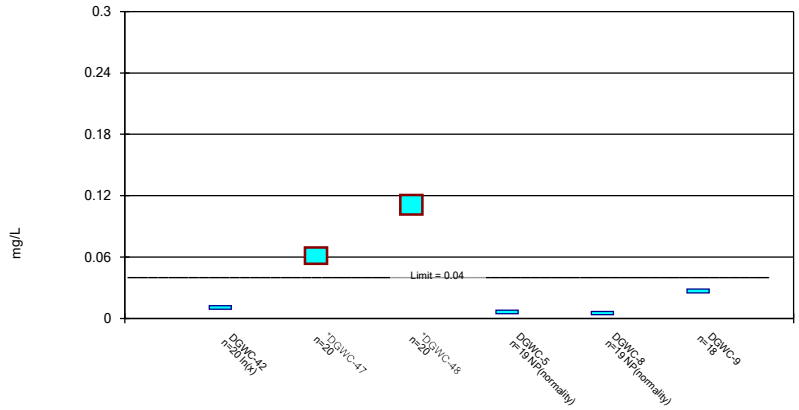

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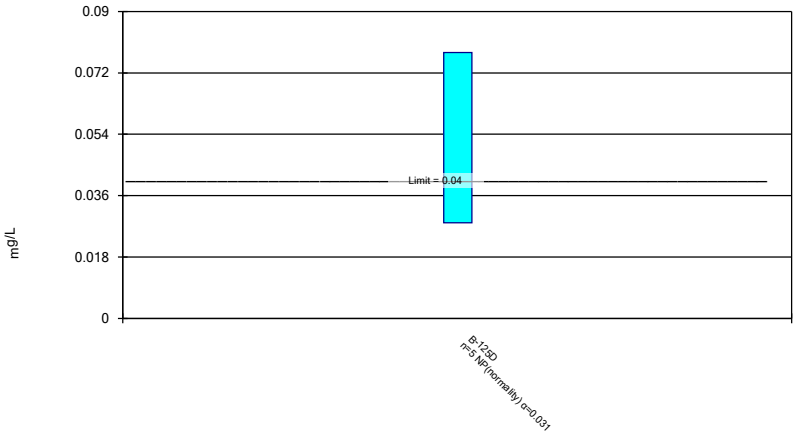
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

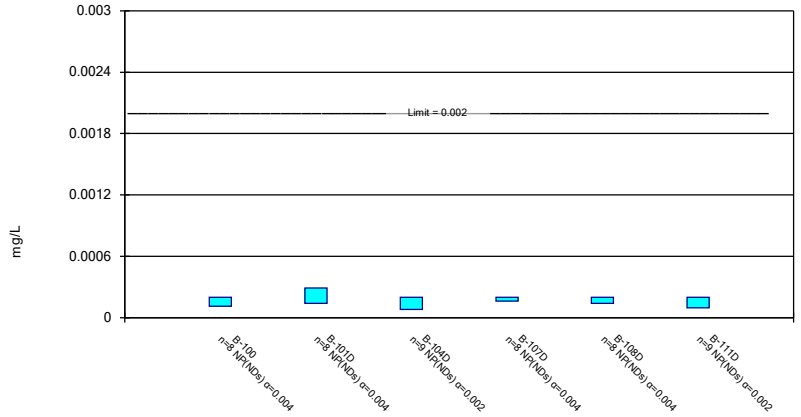


Constituent: Lithium Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

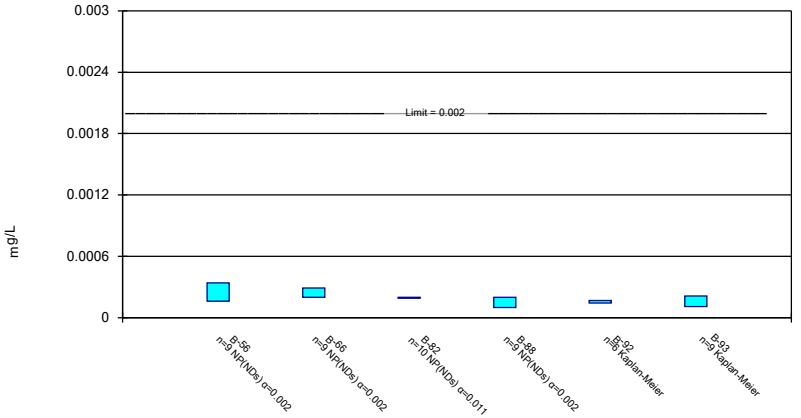


Constituent: Mercury Analysis Run 4/3/2024 4:33 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Sanitas™ v.10.0.16 . UG

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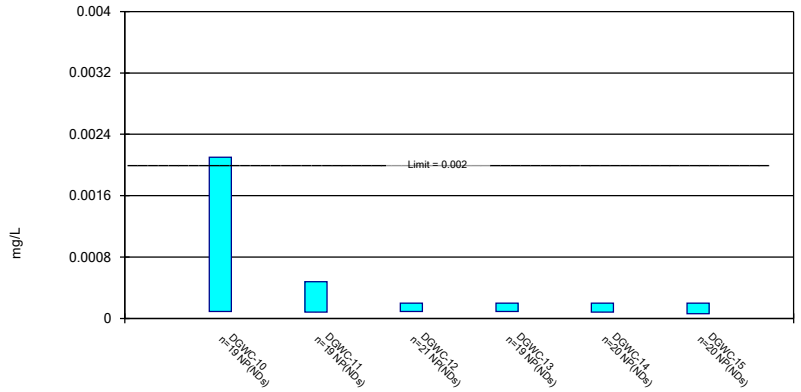

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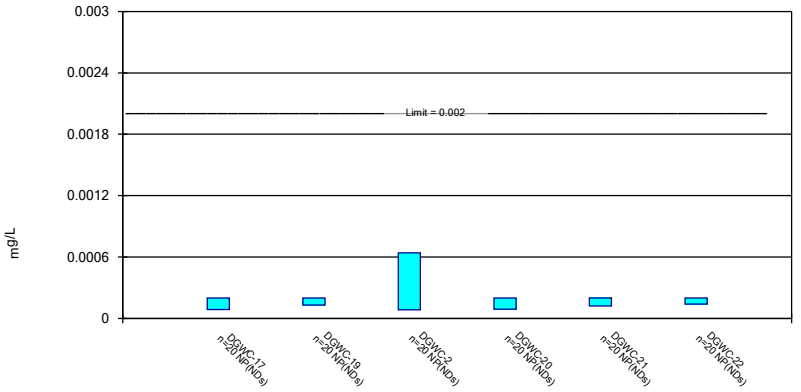

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Sanitas™ v.10.0.16 . UG

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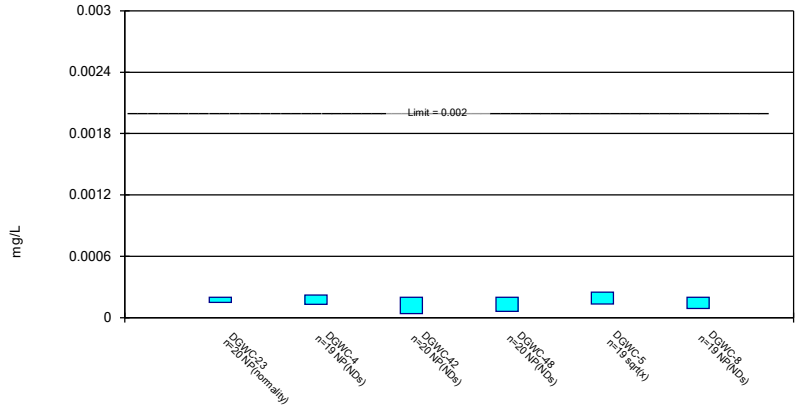

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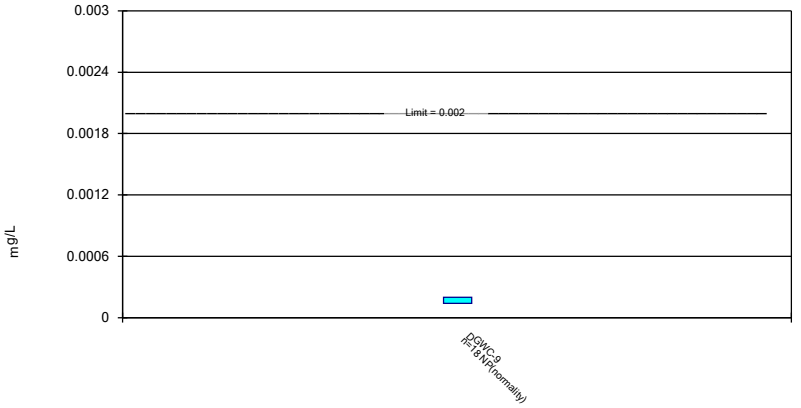

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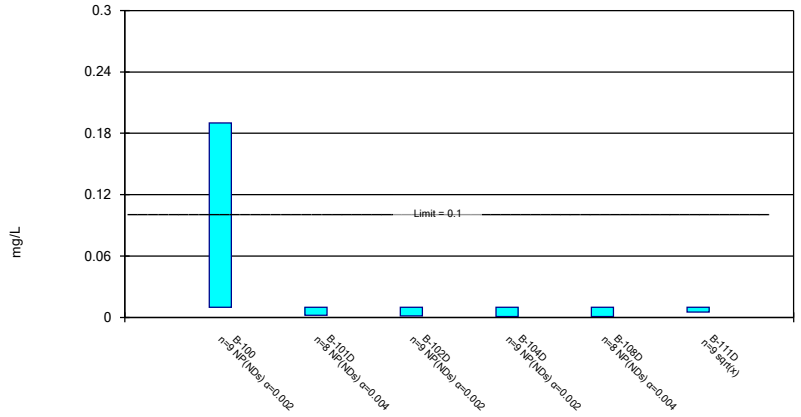
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

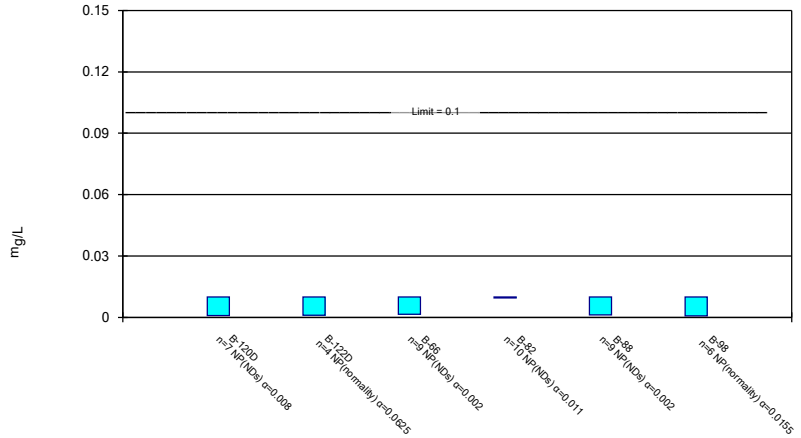


Constituent: Molybdenum Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

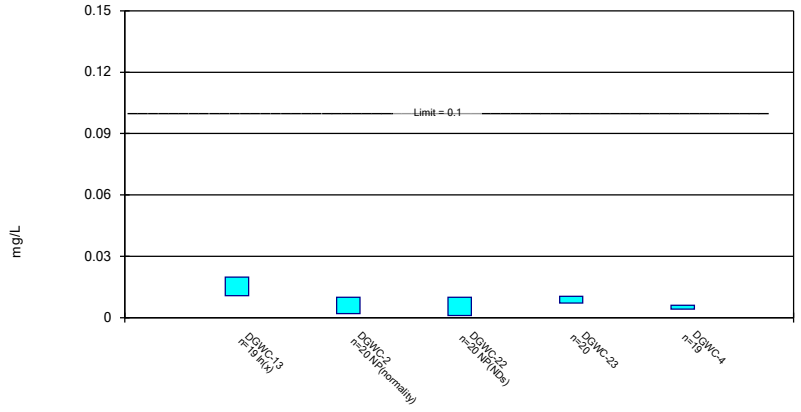


Constituent: Molybdenum Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

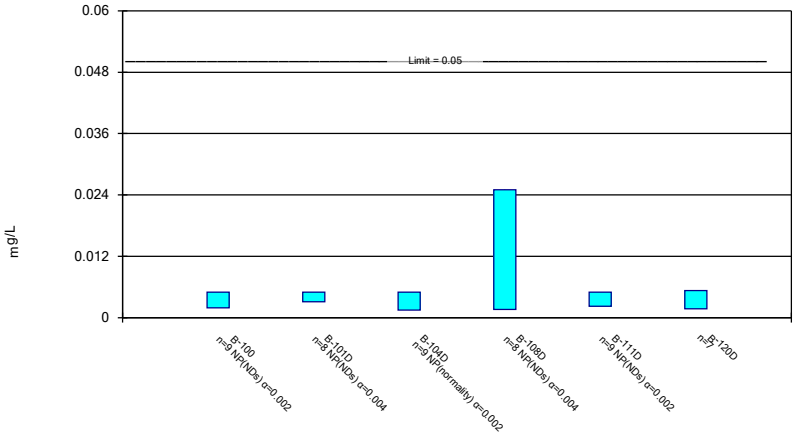


Constituent: Molybdenum Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

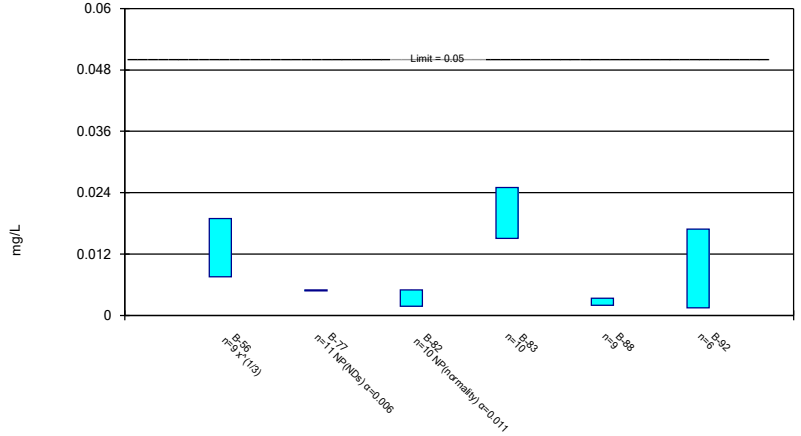


Constituent: Selenium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

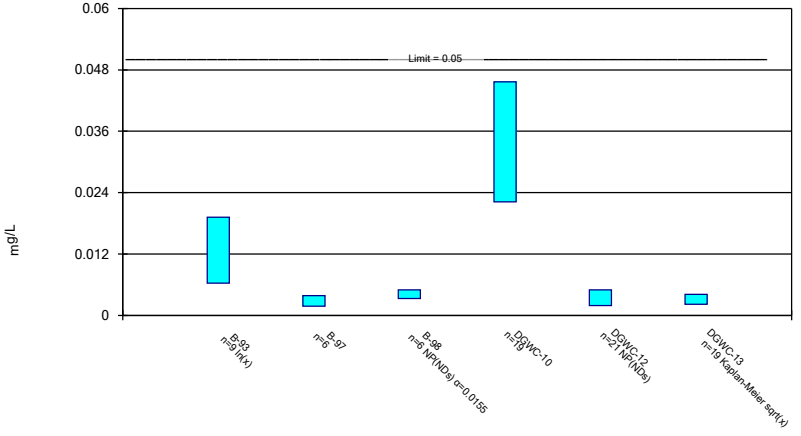


Constituent: Selenium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

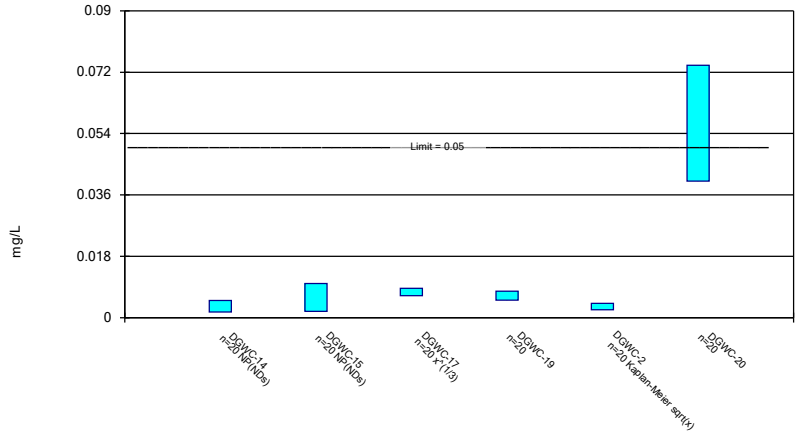
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

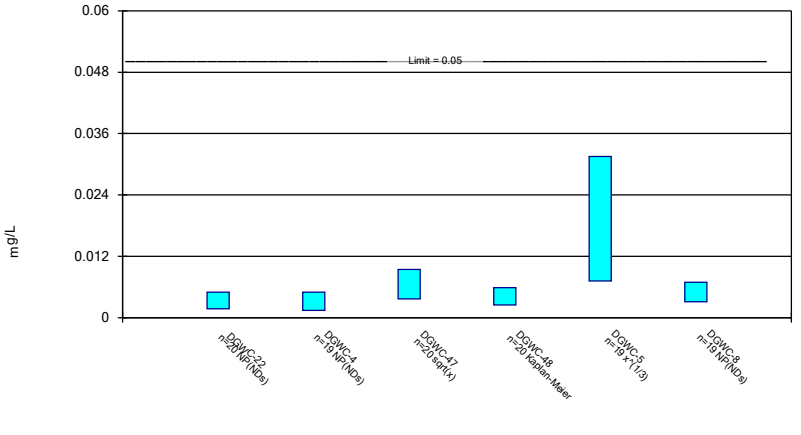


Constituent: Selenium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

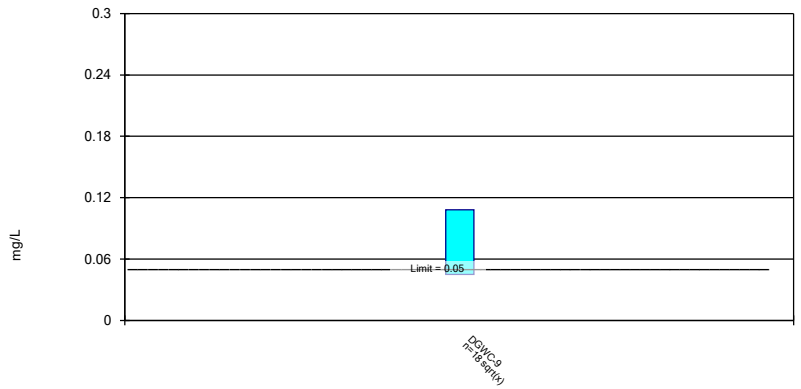


Constituent: Selenium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

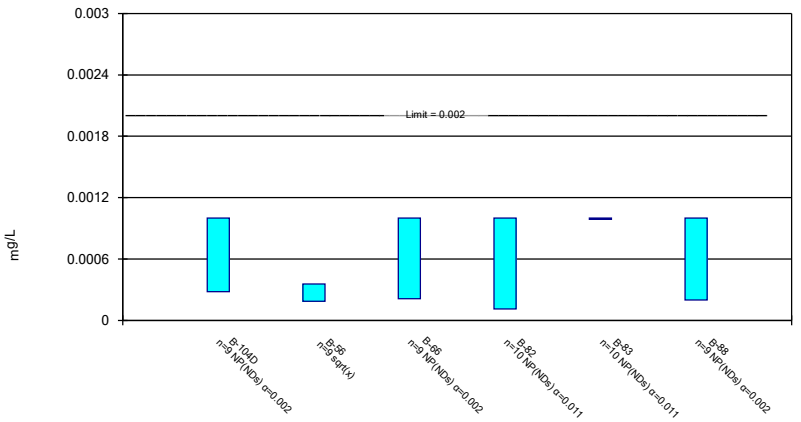


Constituent: Selenium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

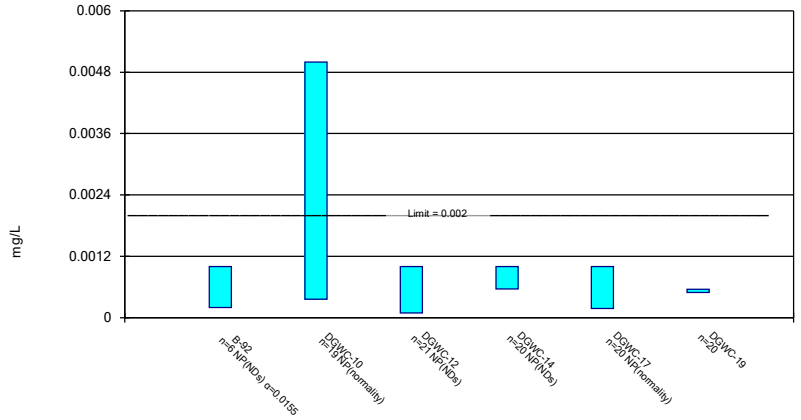


Constituent: Thallium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

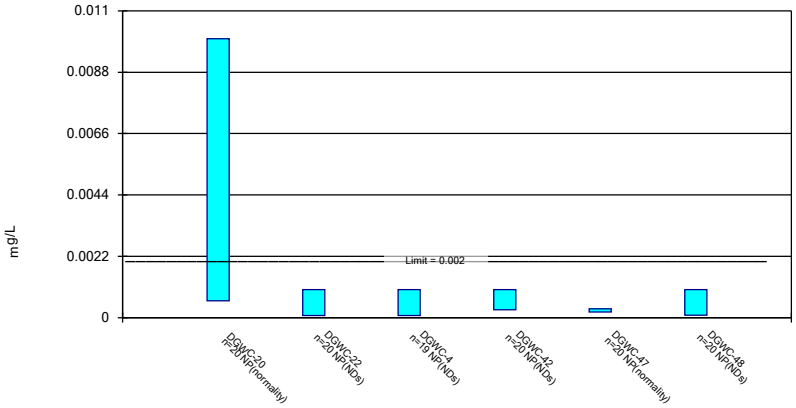


Constituent: Thallium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

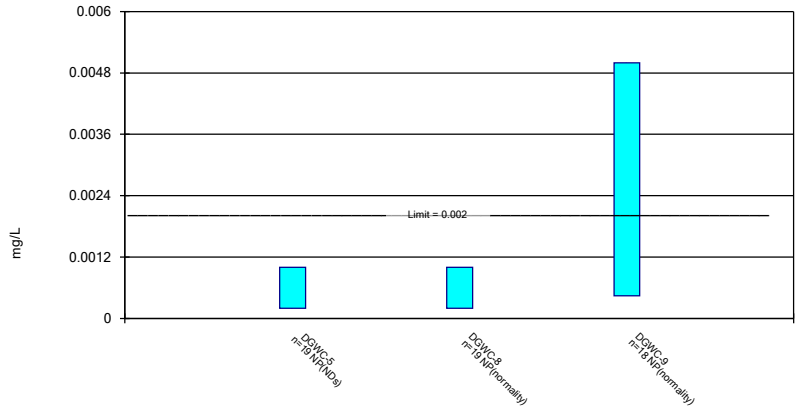


Constituent: Thallium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/3/2024 4:34 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 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-111D
8/17/2020	0.0013 (J)					
9/25/2020	<0.003					
12/9/2020				0.00079 (J)		<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
3/4/2021			<0.003	0.00077 (J)	<0.003	
3/5/2021		0.0019 (J)				0.0006 (J)
3/8/2021	0.0017 (J)					
9/10/2021			<0.003			
9/13/2021	<0.003	0.001 (J)			<0.003	
9/14/2021				<0.003		<0.003
1/21/2022	<0.003					
1/24/2022				0.001 (J)		<0.003
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			
9/16/2022		<0.003			<0.003	
2/2/2023	<0.003		<0.003			
2/3/2023		<0.003		<0.003		
2/7/2023					<0.003	<0.003
9/6/2023	<0.003					
9/8/2023		<0.003				
9/11/2023			<0.003		<0.003	
9/13/2023				<0.003		0.0016 (J)
1/31/2024	<0.003					
2/2/2024		0.00062 (J)	0.001 (J)		<0.003	
2/5/2024				<0.003		<0.003
Mean	0.002667	0.001716	0.002622	0.002004	0.002685	0.002578
Std. Dev.	0.000669	0.00115	0.0007645	0.001188	0.000891	0.0008743
Upper Lim.	0.003	0.001457	0.003	0.003	0.003	0.003
Lower Lim.	0.0013	0.0004504	0.001	0.00048	0.00048	0.0006

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	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			
3/3/2021			<0.003			
3/4/2021						0.00063 (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
1/20/2022	<0.003			<0.003	<0.003	<0.003
1/27/2022			0.0011 (J)			
6/6/2022		<0.003				
9/8/2022				<0.003		
9/13/2022						<0.003
9/14/2022					<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				<0.003
2/7/2023			<0.003			
9/7/2023		<0.003		<0.003	<0.003	
9/8/2023			<0.003			
9/12/2023	<0.003					<0.003
2/1/2024		0.0006 (J)		<0.003	<0.003	
2/5/2024	<0.003		<0.003			<0.003
Mean	0.002613	0.0024	0.002789	0.002788	0.00274	0.002311
Std. Dev.	0.001024	0.0012	0.0006333	0.0007332	0.00078	0.001182
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00029	0.0006	0.0011	0.00046	0.00066	0.00043

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 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		
9/6/2023	<0.003	<0.003				
9/8/2023					<0.003	<0.003
9/11/2023			<0.003	<0.003		
1/30/2024	<0.003	<0.003				
2/2/2024			<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 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
2/5/2024					<0.003	<0.003
Mean	0.002429	0.002667	0.002953	0.002871	0.002805	0.002753
Std. Dev.	0.0008686	0.0008165	0.0002065	0.0005892	0.0006004	0.000763
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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/1/2016		<0.003				
9/2/2016				<0.003	<0.003	
9/7/2016	<0.003					
12/7/2016		<0.003		<0.003		
12/8/2016	<0.003				<0.003	
3/29/2017		<0.003		<0.003		
3/30/2017	<0.003		<0.003		<0.003	<0.003
5/11/2017			<0.003			
5/12/2017						<0.003
6/15/2017			0.0006 (J)			0.0007 (J)
7/11/2017			<0.003			
7/12/2017	<0.003	<0.003		<0.003	<0.003	<0.003
10/24/2017			<0.003			
10/25/2017	<0.003	<0.003		<0.003	<0.003	
10/26/2017						<0.003
2/27/2018			<0.003			
2/28/2018	<0.003	<0.003		<0.003	<0.003	
3/1/2018						<0.003
7/11/2018	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
7/12/2018						<0.003
11/6/2018			<0.003			
11/7/2018	<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
10/16/2019		<0.003				
10/17/2019			<0.003	<0.003	<0.003	
10/18/2019	<0.003					<0.003
3/3/2020		<0.003	<0.003		<0.003	
3/4/2020	<0.003			<0.003		<0.003
8/11/2020		<0.003	<0.003			
8/13/2020				<0.003		<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
3/2/2021		<0.003	<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
1/21/2022				<0.003		
1/24/2022	<0.003					
1/25/2022		<0.003				
9/14/2022	<0.003	<0.003				
9/15/2022				<0.003	<0.003	
9/20/2022			<0.003			<0.003
2/6/2023	<0.003	<0.003	<0.003			<0.003
2/7/2023				<0.003	<0.003	
9/8/2023		0.0013 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-23
9/11/2023				0.0018 (J)	<0.003	<0.003
9/13/2023	<0.003		<0.003			
1/31/2024					<0.003	<0.003
2/1/2024		<0.003	<0.003	<0.003		
2/6/2024	<0.003					
Mean	0.002873	0.002783	0.00288	0.00294	0.002915	0.002885
Std. Dev.	0.0005702	0.0006851	0.0005367	0.0002683	0.0003801	0.0005143
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00045	0.0013	0.0006	0.0018	0.0013	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	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			<0.003	
3/29/2017					<0.003
3/30/2017			<0.003		
3/31/2017		<0.003			
5/12/2017	<0.003				
6/15/2017	0.0008 (J)				
7/11/2017	<0.003			<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		
2/27/2018	<0.003			<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	<0.003
11/7/2018		<0.003	<0.003		
8/27/2019	<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	<0.003
10/17/2019		<0.003			
10/18/2019			<0.003		
3/2/2020	0.00058 (J)			0.00032 (J)	
3/3/2020					<0.003
3/4/2020		<0.003	<0.003		
8/12/2020	<0.003	<0.003		<0.003	<0.003
8/13/2020			<0.003		
9/22/2020	<0.003			<0.003	
9/23/2020		0.0012 (J)	0.00039 (J)		<0.003
3/1/2021	0.00049 (J)				
3/2/2021				0.0015 (J)	0.00046 (J)
3/3/2021		<0.003	<0.003		
9/10/2021	<0.003	<0.003	0.0018 (J)	<0.003	
9/13/2021					<0.003
1/21/2022		<0.003			
1/24/2022	<0.003		<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
9/19/2022	<0.003				
2/3/2023	<0.003	<0.003	<0.003		
2/7/2023				<0.003	<0.003
9/12/2023		<0.003			<0.003
9/13/2023	<0.003		<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-4	DGWC-47	DGWC-48	DGWC-5	DGWC-8
2/1/2024	0.0028 (J)			0.00068 (J)	<0.003
2/5/2024		<0.003	<0.003		
Mean	0.002614	0.00291	0.00281	0.002658	0.002866
Std. Dev.	0.0008885	0.0004025	0.0006294	0.0008364	0.0005827
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0028	0.0012	0.0018	0.0015	0.00046

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-101D	B-104D	B-108D	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	<0.005		
1/12/2021	<0.005	<0.005		<0.005		
3/3/2021						0.003 (J)
3/4/2021		0.0025 (J)	<0.005			
3/5/2021	0.0017 (J)			0.0023 (J)		
4/15/2021					<0.005	
9/13/2021	<0.005					0.0031 (J)
9/14/2021		0.0019 (J)	<0.005	0.0029 (J)	<0.005	
1/20/2022					0.0016 (J)	
1/24/2022		0.0035 (J)	<0.005	0.0022 (J)		
1/26/2022	<0.005					
1/27/2022						0.0045 (J)
9/13/2022		<0.005				
9/14/2022				<0.005		
9/15/2022			<0.005			
9/16/2022	<0.005					<0.005
9/19/2022					<0.005	
2/3/2023	<0.005	<0.005			<0.005	
2/7/2023			<0.005	<0.005		0.005 (J)
9/8/2023	<0.005					0.0043 (J)
9/12/2023					<0.005	
9/13/2023		<0.005	<0.005	<0.005		
2/1/2024			0.008			
2/2/2024	<0.005					
2/5/2024		0.00093 (J)		<0.005	<0.005	0.0042 (J)
Mean	0.004587	0.003759	0.005375	0.004156	0.004514	0.003833
Std. Dev.	0.001167	0.001613	0.001061	0.001281	0.001285	0.0008888
Upper Lim.	0.005	0.005	0.008	0.005	0.005	0.004691
Lower Lim.	0.0017	0.00093	0.005	0.0022	0.0016	0.002975

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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)		
9/6/2023						<0.005
9/7/2023	<0.005	<0.005				
9/11/2023				<0.005		
9/12/2023			<0.005		<0.005	
1/30/2024						0.0021 (J)
2/1/2024	<0.005	<0.005		<0.005	<0.005	
2/5/2024			0.0014 (J)			
Mean	0.004858	0.004689	0.003527	0.004727	0.00464	0.00285
Std. Dev.	0.0004907	0.0009333	0.001475	0.0006467	0.001138	0.001712
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.002416
Lower Lim.	0.0033	0.0022	0.002	0.004	0.005	0.001185

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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		
9/6/2023	<0.005	<0.005				
9/8/2023					<0.005	<0.005
9/11/2023			0.0065	<0.005		
1/30/2024	<0.005					
1/31/2024		<0.005				

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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
2/2/2024			0.0063	<0.005		
2/5/2024					<0.005	<0.005
Mean	0.003756	0.0044	0.005053	0.004582	0.004769	0.004377
Std. Dev.	0.001536	0.00147	0.002403	0.001319	0.001031	0.001527
Upper Lim.	0.005	0.005	0.00646	0.005	0.005	0.005
Lower Lim.	0.0013	0.0014	0.003645	0.00063	0.00039	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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
9/19/2022						<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		
9/8/2023		<0.005				
9/11/2023				0.029	<0.005	
9/13/2023	<0.005		<0.005			<0.005
1/31/2024					<0.005	
2/1/2024		0.00088 (J)	<0.005	0.025		<0.005
2/6/2024	<0.005					
Mean	0.003616	0.002601	0.004539	0.01446	0.0048	0.0041
Std. Dev.	0.001942	0.001725	0.001156	0.007688	0.0008944	0.001794
Upper Lim.	0.005	0.001809	0.005	0.01883	0.005	0.005
Lower Lim.	0.0012	0.000967	0.0025	0.01009	0.001	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2024 4:36 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
2/7/2023				0.0036 (J)	<0.005	
9/12/2023		<0.005			<0.005	
9/13/2023	<0.005		<0.005	<0.005		
1/30/2024	<0.005					
2/1/2024				<0.005	<0.005	
2/5/2024		0.001 (J)	<0.005			
Mean	0.00459	0.00295	0.003654	0.007237	0.004035	0.02187
Std. Dev.	0.001264	0.001624	0.001897	0.008745	0.001672	0.009656
Upper Lim.	0.005	0.002512	0.005	0.006957	0.005	0.02771
Lower Lim.	0.0011	0.001372	0.0015	0.002545	0.0015	0.01603

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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	
9/6/2023	0.021					
9/8/2023		0.075				
9/11/2023			0.019		0.023	
9/12/2023						0.046
9/13/2023				0.02		
1/31/2024	0.019					
2/1/2024						0.04
2/2/2024		0.071	0.019		0.023	
2/5/2024				0.018		
Mean	0.02911	0.06688	0.02078	0.02111	0.0215	0.07763
Std. Dev.	0.02594	0.009658	0.001787	0.002759	0.001195	0.03483
Upper Lim.	0.098	0.07711	0.0225	0.02377	0.02277	0.1145
Lower Lim.	0.015	0.05664	0.01905	0.01845	0.02023	0.0407

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	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				
3/3/2021					0.028	
3/4/2021	0.06					
3/5/2021		0.038				
3/12/2021						0.027
4/15/2021			0.044			
9/9/2021						0.021
9/13/2021					0.026	
9/14/2021	0.06	0.043	0.031			
1/20/2022			0.025			0.021
1/24/2022	0.056	0.038				
1/27/2022					0.03	
6/6/2022				0.039		
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			
2/2/2023						0.019
2/3/2023			0.021			
2/6/2023				0.04		
2/7/2023	0.051	0.028			0.027	
9/7/2023				0.044		0.015
9/8/2023					0.028	
9/12/2023			0.021			
9/13/2023	0.051	0.031				
2/1/2024	0.048			0.052		0.017
2/5/2024		0.025	0.033		0.026	
Mean	0.05575	0.03167	0.02829	0.04375	0.02767	0.02133
Std. Dev.	0.00597	0.006364	0.008381	0.005909	0.001581	0.00403
Upper Lim.	0.06208	0.03764	0.03824	0.05717	0.02919	0.0245
Lower Lim.	0.04942	0.02572	0.01833	0.03033	0.02615	0.01817

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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
9/7/2023	0.025					
9/11/2023		0.028		0.024		
9/12/2023			0.12		0.028	0.017
2/1/2024	0.062	0.025		0.024	0.027	
2/5/2024			0.11			0.015
Mean	0.03233	0.02067	0.1095	0.0247	0.0307	0.01822
Std. Dev.	0.01566	0.004	0.01347	0.003433	0.009487	0.002728
Upper Lim.	0.062	0.02453	0.1208	0.02776	0.034	0.02082
Lower Lim.	0.02	0.0168	0.09832	0.02164	0.024	0.01563

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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
9/6/2023	0.013	0.017	0.02	0.051		
9/8/2023						0.034
9/11/2023					0.019	
1/30/2024	0.018	0.014		0.048		
1/31/2024			0.022			
2/1/2024						0.038
2/2/2024					0.018 (J)	
Mean	0.01567	0.01656	0.0205	0.05817	0.02451	0.05602
Std. Dev.	0.001751	0.002068	0.0008367	0.02323	0.005099	0.01137
Upper Lim.	0.01807	0.01855	0.022	0.09008	0.0275	0.06268
Lower Lim.	0.01326	0.01456	0.02	0.02625	0.02152	0.04936

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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
9/8/2023		0.022	0.057	0.035		0.022
9/11/2023	0.058					
9/13/2023					0.031	
1/31/2024		0.024				
2/1/2024						0.024
2/2/2024	0.054					
2/5/2024			0.057	0.037		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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
2/6/2024					0.027	
Mean	0.03332	0.02795	0.06008	0.04534	0.04421	0.0239
Std. Dev.	0.01151	0.006668	0.00343	0.00577	0.01265	0.002527
Upper Lim.	0.03872	0.03148	0.06203	0.04861	0.05139	0.02533
Lower Lim.	0.02675	0.02561	0.05813	0.04206	0.03703	0.02246

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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
2/7/2023		0.019	0.024			
9/11/2023		0.014	0.024	0.029	0.022	
9/13/2023	0.023					0.034
1/31/2024			0.024	0.03	0.023	
2/1/2024	0.024	0.015 (J)				0.032
Mean	0.02195	0.01335	0.02547	0.03333	0.0214	0.03398
Std. Dev.	0.001191	0.004468	0.001558	0.004576	0.003653	0.002489
Upper Lim.	0.02263	0.01589	0.027	0.03592	0.02347	0.03544
Lower Lim.	0.02127	0.01082	0.024	0.03073	0.01933	0.03252

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2024 4:36 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 4/3/2024 4:36 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
2/7/2023				0.019	0.025	
9/12/2023		0.023			0.021	
9/13/2023	0.015		0.015	0.016		
1/30/2024	0.015					
2/1/2024				0.016	0.02	
2/5/2024		0.018	0.013			
Mean	0.01752	0.01835	0.01371	0.01741	0.02942	0.01583
Std. Dev.	0.003108	0.002812	0.0009545	0.001233	0.008568	0.001275
Upper Lim.	0.01913	0.01994	0.01425	0.01816	0.03395	0.0166
Lower Lim.	0.01576	0.01675	0.01316	0.01666	0.02416	0.01506

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 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)	
9/6/2023	0.00054					
9/8/2023		<0.0005				
9/11/2023			0.00074		6.6E-05 (J)	
9/12/2023						<0.0005
9/13/2023				0.0016		
1/31/2024	0.00047 (J)					
2/1/2024						<0.0005
2/2/2024		<0.0005	0.00081		0.0001 (J)	
2/5/2024				0.0014		
Mean	0.0004567	0.0001736	0.001062	0.0014	0.0001063	0.0004438
Std. Dev.	0.0001063	0.0002016	0.0002199	0.0001732	2.236E-05	0.0001591
Upper Lim.	0.0005593	0.0005	0.001275	0.001567	0.0001299	0.0005
Lower Lim.	0.000354	4.7E-05	0.0008499	0.001233	8.255E-05	5E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-120D	B-122D	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						<0.003
1/30/2019					<0.0025	
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)		
12/9/2020	<0.0005					
3/3/2021				0.0011		
3/4/2021	<0.0005					
3/12/2021					<0.0025	
4/15/2021		0.00085				
9/9/2021					0.00014 (J)	
9/13/2021				0.0012		
9/14/2021	<0.0005	0.00087				0.00042 (J)
1/20/2022		0.0011			0.00015 (J)	0.00034 (J)
1/24/2022	<0.0005					
1/27/2022				0.0012		
6/6/2022			0.00024 (J)			
9/8/2022					0.00013 (J)	
9/14/2022						0.00053
9/15/2022	<0.0005					
9/16/2022				0.0013		
9/19/2022		0.0011				
2/2/2023					0.00012 (J)	0.00028 (J)
2/3/2023		0.001				
2/6/2023			0.00034 (J)			
2/7/2023	<0.0005			0.0012		
9/7/2023			0.00049 (J)		0.00011 (J)	0.0005 (J)
9/8/2023				0.0013		
9/12/2023		0.00066				
9/13/2023	<0.0005					
2/1/2024	0.00058		0.00045 (J)		0.00015 (J)	0.00035 (J)
2/5/2024		0.00089		0.0013		
Mean	0.00051	0.0009243	0.00038	0.001233	0.0004868	0.0004964
Std. Dev.	2.828E-05	0.0001565	0.0001128	7.071E-05	0.0008937	0.000343
Upper Lim.	0.00058	0.00111	0.0006362	0.0013	0.0025	0.00053
Lower Lim.	0.0005	0.0007384	0.0001238	0.0011	9E-05	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM 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		
1/31/2023					0.017	0.016
2/3/2023			0.00038 (J)			
2/6/2023	<0.0005					
2/7/2023		0.0018		0.0016		
9/6/2023					0.013	0.014
9/11/2023		0.0017				
9/12/2023	<0.0005		0.00038 (J)	0.0014		
1/30/2024					0.016	0.013
2/1/2024		0.0016	0.00038 (J)			
2/5/2024	<0.0005			0.0015		
Mean	0.0003173	0.00164	0.000399	0.001748	0.01675	0.01459
Std. Dev.	0.0002115	0.0002914	0.0001168	0.001272	0.002712	0.003017
Upper Lim.	0.0005	0.0019	0.00044	0.002547	0.01962	0.01676
Lower Lim.	5.7E-05	0.00138	0.00028	0.0008737	0.01388	0.01288

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 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			0.0046	<0.003		
9/1/2016					0.0002 (J)	
9/6/2016						<0.0005
12/6/2016			0.0048	<0.003		
12/7/2016					0.0002 (J)	<0.0005
3/29/2017			0.0048	<0.003	0.0002 (J)	
3/30/2017						7E-05 (J)
7/12/2017			0.0046	<0.003	0.0002 (J)	<0.0005
10/24/2017			0.0048	<0.003		
10/25/2017					0.0002 (J)	
11/15/2017						<0.0005
2/27/2018			0.0106	<0.003	<0.0005	
2/28/2018						<0.0005
7/11/2018					0.0002 (J)	
11/6/2018			0.012	<0.003 (J)		
11/7/2018					<0.003 (J)	<0.003 (J)
8/27/2019			0.0092	0.00014 (J)	0.00028 (J)	
8/28/2019						<0.0005
9/17/2019					0.00049 (J)	
10/15/2019			0.01	0.00012 (J)	0.00016 (J)	
10/16/2019						<0.0005
2/17/2020	<0.003	<0.0005				
2/27/2020	0.0019 (J)	<0.0005				
3/2/2020				0.00016 (J)	7.4E-05 (J)	
3/3/2020			0.0085			<0.0005
8/11/2020			0.0066	0.00011 (J)	0.00024 (J)	
8/12/2020						7.8E-05 (J)
9/22/2020				0.00015 (J)	0.00017 (J)	
9/23/2020						6.8E-05 (J)
9/24/2020			0.0077			
3/2/2021				0.00014 (J)		7.3E-05 (J)
3/3/2021					0.00011 (J)	
3/4/2021			0.0086			
3/9/2021	0.0019					
3/15/2021		<0.0005				
9/9/2021				0.00013 (J)	8.4E-05 (J)	7E-05 (J)
9/10/2021			0.0074			
9/15/2021	0.0016	0.00087				
1/25/2022				0.00019 (J)	<0.0005	9.1E-05 (J)
1/26/2022	0.0017	6.8E-05 (J)	0.0091			
9/13/2022	0.0017	6.2E-05 (J)				
9/15/2022			0.0063	0.00018 (J)	0.00019 (J)	8E-05 (J)
1/31/2023		<0.0005				
2/1/2023	0.0017					6.7E-05 (J)
2/2/2023			0.0066			
2/6/2023				0.00019 (J)	8.2E-05 (J)	
9/6/2023	0.0016	<0.0005				
9/8/2023				0.0002 (J)		8.7E-05 (J)
9/11/2023			0.0065		7.7E-05 (J)	
1/30/2024		<0.0005				
1/31/2024	0.0017					<0.0005
2/1/2024				0.00019 (J)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 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
2/2/2024			0.0069		<0.0005	
Mean	0.0017	0.0004444	0.007347	0.001205	0.0003646	0.0004307
Std. Dev.	0.0001323	0.0002469	0.002192	0.001409	0.0006206	0.0006573
Upper Lim.	0.001828	0.00087	0.008631	0.003	0.00049	0.0005
Lower Lim.	0.001572	6.2E-05	0.006064	0.00014	0.00011	7.3E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22
9/1/2016			0.0019 (J)			
9/2/2016				0.0026 (J)	0.0001 (J)	0.0002 (J)
9/6/2016	<0.0005					
9/7/2016		0.0006 (J)				
12/7/2016	<0.0005		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	<0.0005	0.0006 (J)			0.0002 (J)	
7/12/2017	<0.0005	0.0005 (J)	0.0018 (J)	0.0025 (J)	0.0001 (J)	
7/13/2017						0.0002 (J)
10/25/2017	<0.0005	0.0005 (J)	0.0019 (J)	0.0027 (J)	0.0002 (J)	0.0002 (J)
2/28/2018	<0.0005	<0.003	<0.003	<0.003	<0.003	<0.003
7/11/2018	<0.0005	0.00058 (J)	0.002 (J)	0.0026 (J)	0.00016 (J)	
7/12/2018						0.00018 (J)
11/7/2018	<0.003 (J)	<0.003	<0.003 (J)	<0.003 (J)	<0.003 (J)	<0.003 (J)
8/27/2019		0.00066 (J)				
8/28/2019	<0.0005		0.0018 (J)			
8/29/2019				0.005	0.00018 (J)	0.00015 (J)
10/16/2019			0.0017 (J)			
10/17/2019	<0.0005			0.0041	0.00015 (J)	
10/18/2019		0.00071 (J)				0.00014 (J)
3/3/2020	<0.0005		0.0021 (J)		0.00019 (J)	0.00017 (J)
3/4/2020		0.00062 (J)		0.0089		
8/11/2020			0.002 (J)			
8/13/2020	0.00022 (J)			0.0063		
8/14/2020		0.00064 (J)			0.0002 (J)	0.00016 (J)
9/22/2020			0.002 (J)	0.0027 (J)		
9/23/2020	5.8E-05 (J)					
9/24/2020		0.0006 (J)			0.00018 (J)	0.00017 (J)
3/2/2021	<0.0005		0.0019	0.0057		
3/3/2021		0.00056			0.00017 (J)	0.00013 (J)
9/9/2021	<0.0005		0.0022		0.00018 (J)	
9/10/2021				0.0024		0.00014 (J)
9/13/2021		0.00052				
1/20/2022					0.00019 (J)	0.00014 (J)
1/21/2022				0.007		
1/24/2022	<0.0005	0.00059				
1/25/2022			0.0019			
9/13/2022	<0.0005					
9/14/2022		0.00058	0.0018			
9/15/2022				0.0056	0.00018 (J)	
9/16/2022						0.00023 (J)
2/2/2023	<0.0005					
2/6/2023		0.00051	0.0017			0.0001 (J)
2/7/2023				0.0073	0.00016 (J)	
9/8/2023	<0.0005		0.0015			
9/11/2023				0.0067	0.00016 (J)	0.00012 (J)
9/13/2023		0.00057				
1/31/2024					0.00017 (J)	0.00013 (J)
2/1/2024			0.0015	0.0078		
2/5/2024	<0.0005					
2/6/2024		0.00058				

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-15	DGWC-17	DGWC-19	DGWC-20	DGWC-21	DGWC-22
Mean	0.0005889	0.000671	0.001825	0.00445	0.0002985	0.000293
Std. Dev.	0.0005788	0.0002888	0.0002149	0.002296	0.0004121	0.0004143
Upper Lim.	0.003	0.00064	0.001947	0.005754	0.0002	0.0002
Lower Lim.	0.00022	0.00052	0.001703	0.003146	0.00015	0.00013

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						0.0054
9/1/2016				0.0165	0.008	
9/7/2016			0.0021 (J)			
12/6/2016						0.0064
12/8/2016			0.0023 (J)	0.0116	0.0086	
3/28/2017		0.0002 (J)				0.0049
3/30/2017	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	0.0004 (J)					
7/13/2017			0.0025 (J)	0.0098	0.0106	
10/24/2017		0.0002 (J)				
10/25/2017			0.0026 (J)			0.0069
10/26/2017	0.0004 (J)			0.0119	0.0078	
2/27/2018		<0.003				0.0086
2/28/2018			<0.003			
3/1/2018	<0.003			0.0146		
3/2/2018					0.0096	
7/11/2018			0.0029 (J)			
7/12/2018	0.00035 (J)			0.013	0.0086	
11/6/2018		<0.003 (J)				0.01
11/7/2018			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	0.00041 (J)			0.011	0.0081	
10/15/2019		0.00022 (J)				
10/16/2019						0.0072
10/17/2019			0.0027 (J)	0.0093		
10/18/2019	0.00038 (J)				0.0099	
3/2/2020		0.00025 (J)				0.0098
3/4/2020	0.00077 (J)		0.0029 (J)	0.01	0.008	
8/12/2020		0.00024 (J)		0.0068		0.0081
8/13/2020	0.00041 (J)		0.0026 (J)		0.0071	
9/22/2020		0.00019 (J)	0.0013 (J)			0.0081
9/23/2020				0.0069	0.0072	
9/24/2020	0.00045 (J)					
3/1/2021		0.00027 (J)				
3/2/2021						0.0063
3/3/2021	0.0005		0.0023	0.0081	0.0068	
9/9/2021	0.0005 (J)					
9/10/2021		0.00028 (J)		0.009	0.007	0.0075
9/13/2021			0.0024			
1/20/2022	0.00046 (J)		0.002			
1/21/2022				0.01		
1/24/2022		0.00033 (J)			0.0069	0.0084
9/13/2022			0.0028	0.0094	0.0071	
9/14/2022						0.01
9/19/2022		0.00034 (J)				
9/20/2022	0.00037 (J)					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
2/1/2023			0.0022			
2/3/2023		0.00033 (J)		0.0087	0.0062	
2/6/2023	0.00038 (J)					
2/7/2023						0.0083
9/11/2023	0.00035 (J)					
9/12/2023				0.0081		
9/13/2023		0.0004 (J)	0.0024		0.0065	0.0084
1/30/2024			0.0024			
1/31/2024	0.00048 (J)					
2/1/2024		0.00039 (J)				0.0075
2/5/2024				0.0074	0.0055	
Mean	0.0005405	0.0003832	0.00239	0.01037	0.007895	0.007726
Std. Dev.	0.0003404	0.0004021	0.00044	0.002633	0.001413	0.001629
Upper Lim.	0.0005	0.00039	0.00264	0.01186	0.008697	0.00868
Lower Lim.	0.00038	0.0002	0.00214	0.00887	0.007093	0.006772

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	0.0018 (J)	0.0045
12/6/2016	0.0034	0.005
3/28/2017		0.0052
3/29/2017	0.0031	
7/11/2017	0.0022 (J)	0.0048
10/24/2017	0.0042	0.0051
2/27/2018	0.0047	0.0057
7/11/2018		0.0058
11/6/2018	<0.003 (J)	0.006
8/27/2019		0.007
8/28/2019	0.0021 (J)	
10/16/2019	0.0019 (J)	
10/17/2019		0.0063
3/3/2020	0.0018 (J)	0.0048
8/11/2020		0.0062
8/12/2020	0.0018 (J)	
9/22/2020		0.0049
9/23/2020	0.0015 (J)	
3/2/2021	0.0012	0.005
9/10/2021		0.0049
9/13/2021	0.0015	
1/25/2022	0.0012	
1/26/2022		0.0054
9/15/2022	0.00088	
9/19/2022		0.0047
2/3/2023		0.0046
2/7/2023	0.0007	
9/12/2023	0.0014	
2/1/2024	0.001	
Mean	0.001994	0.005328
Std. Dev.	0.001101	0.0006918
Upper Lim.	0.002494	0.005746
Lower Lim.	0.001336	0.004909

Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-106D	B-108D	B-120D
8/17/2020	0.00059 (J)					
9/25/2020	0.00027 (J)					
12/9/2020					<0.0005	
12/17/2020			0.00067 (J)	0.0002 (J)		
1/11/2021			0.0008 (J)			
1/12/2021		<0.0005				
3/4/2021			0.00081	0.00021 (J)	<0.0005	
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)		
9/14/2021					<0.0005	0.0011
1/20/2022						0.00098
1/21/2022	0.00059					
1/24/2022					<0.0005	
1/25/2022				0.00012 (J)		
1/26/2022		0.00011 (J)				
1/27/2022			0.00091			
9/8/2022	0.00027 (J)					
9/15/2022			0.00091		<0.0005	
9/16/2022		<0.0005		<0.0005		
9/19/2022						0.0012
2/2/2023	<0.0005		0.00087			
2/3/2023		<0.0005				0.0011
2/7/2023				<0.0005	<0.0005	
9/6/2023	0.00035 (J)					
9/8/2023		<0.0005				
9/11/2023			0.00072	<0.0005		
9/12/2023						0.001
9/13/2023					<0.0005	
1/31/2024	0.00033 (J)					
2/1/2024					0.00018 (J)	
2/2/2024		<0.0005	0.00061	<0.0005		
2/5/2024						0.00097
Mean	0.0003567	0.0004513	0.0007922	0.0003463	0.00046	0.00105
Std. Dev.	0.000136	0.0001379	0.0001054	0.0001678	0.0001131	8.544E-05
Upper Lim.	0.00059	0.0005	0.000894	0.0005	0.0005	0.001151
Lower Lim.	0.00025	0.00011	0.0006904	0.00012	0.00018	0.0009485

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-56	B-63	B-66	B-82	B-83	B-88
1/28/2019		<0.0005				
1/30/2019			<0.0005			
9/11/2019		<0.0005				
9/12/2019			<0.0005			
9/23/2019				0.00044 (J)		
10/21/2019			<0.0005	0.00035 (J)	0.00041 (J)	
10/22/2019		0.00014 (J)				
8/14/2020					0.00037 (J)	
8/17/2020	0.00029 (J)			0.00058 (J)		0.0018 (J)
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					0.00032 (J)	
3/5/2021						0.0065
9/13/2021	0.00028 (J)					0.0013
9/14/2021		0.00025 (J)	<0.0005	0.0007		
9/16/2021					0.0003 (J)	
1/20/2022		<0.0005				
1/21/2022					0.0003 (J)	
1/25/2022			<0.0005	0.00072		
1/27/2022	0.00025 (J)					0.0036
9/13/2022					0.00031 (J)	
9/14/2022		0.00018 (J)				
9/16/2022	0.0003 (J)		<0.0005	0.00073		0.0019
2/2/2023		<0.0005				
2/3/2023					0.0003 (J)	
2/7/2023	0.00036 (J)		<0.0005	0.00081		0.0033
9/7/2023		0.00028 (J)				
9/8/2023	0.00034 (J)					
9/11/2023			0.00018 (J)	0.00058		
9/12/2023					0.00027 (J)	0.0026
2/1/2024		0.00014 (J)	0.00018 (J)	0.00072	0.00027 (J)	
2/5/2024	0.00036 (J)					0.0023
Mean	0.0002978	0.0003322	0.0004289	0.000629	0.000311	0.002613
Std. Dev.	4.604E-05	0.0001655	0.0001411	0.0001429	4.677E-05	0.001777
Upper Lim.	0.0003422	0.0005	0.0005	0.0007565	0.0003527	0.004329
Lower Lim.	0.0002533	0.00014	0.00018	0.0005015	0.0002693	0.0008973

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 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					0.0012	<0.0005
12/6/2016					0.0013	<0.0005
3/29/2017					0.0013	<0.0005
7/12/2017					0.0013	<0.0005
10/24/2017					0.0014	<0.0005
2/27/2018					0.001	<0.0005
11/6/2018					0.0012	<0.0005
8/27/2019					0.00077 (J)	0.00012 (J)
10/15/2019					0.00095 (J)	<0.0005
3/2/2020						<0.0005
3/3/2020					0.00095 (J)	
8/11/2020					0.00071 (J)	<0.0005
8/19/2020		0.00077 (J)				
9/22/2020						0.00016 (J)
9/24/2020					0.00055 (J)	
9/28/2020		0.00074 (J)				
3/2/2021						0.00013 (J)
3/4/2021					0.00088	
3/9/2021		0.00075 (J)				
9/9/2021						<0.0005
9/10/2021					0.00061	
9/15/2021	0.00096	0.00088	0.00056	0.0003 (J)		
1/25/2022						0.00016 (J)
1/26/2022	0.001	0.00079	0.00055	<0.0005	0.0007	
9/12/2022	0.0014	0.00084				
9/13/2022			0.00055	0.00031 (J)		
9/15/2022					0.00047 (J)	<0.0005
1/31/2023	0.0015	0.00089		<0.0005		
2/1/2023			0.00063			
2/2/2023					0.00059	
2/6/2023						0.00015 (J)
9/6/2023	0.0008	0.001	0.00059	0.00015 (J)		
9/8/2023						0.00014 (J)
9/11/2023					0.0006	
1/30/2024	0.0013	0.0008		<0.0005		
1/31/2024			0.00064			
2/1/2024						0.00017 (J)
2/2/2024					0.00039 (J)	
Mean	0.00116	0.0008289	0.0005867	0.0003767	0.0008879	0.00037
Std. Dev.	0.0002786	8.343E-05	4.033E-05	0.0001465	0.0003209	0.0001752
Upper Lim.	0.001543	0.0009094	0.0006421	0.0003539	0.001076	0.0005
Lower Lim.	0.0007773	0.0007483	0.0005313	0.0001528	0.0007	0.00015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/1/2016	0.0004 (J)				0.0004 (J)	
9/6/2016		<0.0005	<0.0005			
9/7/2016				0.0003 (J)		
12/7/2016	0.0003 (J)	0.0002 (J)	9E-05 (J)		0.0004 (J)	
12/8/2016				0.0003 (J)		
3/29/2017	0.0003 (J)				0.0004 (J)	
3/30/2017		8E-05 (J)	9E-05 (J)	0.0003 (J)		0.0005 (J)
5/11/2017						0.0004 (J)
6/15/2017						0.0003 (J)
7/11/2017						0.0003 (J)
7/12/2017	0.0004 (J)	<0.0005	<0.0005	0.0002 (J)	0.0004 (J)	
10/24/2017						0.0003 (J)
10/25/2017	0.0004 (J)		<0.0005	0.0002 (J)	0.0004 (J)	
11/15/2017		<0.0005				
2/27/2018	<0.0005					<0.0005
2/28/2018		<0.0005	<0.0005	<0.001	<0.001	
7/11/2018	0.00033 (J)		<0.0005	0.00029 (J)	0.00039 (J)	0.00018 (J)
11/6/2018						<0.001 (J)
11/7/2018	<0.001 (J)	<0.0005	<0.001 (J)	<0.001	<0.001 (J)	
8/27/2019	0.00037 (J)			0.00033 (J)		0.00012 (J)
8/28/2019		<0.0005	<0.0005		0.00033 (J)	
9/17/2019	0.00035 (J)					
10/15/2019	0.00025 (J)					
10/16/2019		<0.0005			0.00034 (J)	
10/17/2019			<0.0005			0.00013 (J)
10/18/2019				0.00029 (J)		
3/2/2020	<0.0005					
3/3/2020		<0.0005	0.00012 (J)		0.00037 (J)	0.00014 (J)
3/4/2020				0.00028 (J)		
8/11/2020	0.00038 (J)				0.0003 (J)	<0.0005
8/12/2020		<0.0005				
8/13/2020			0.00013 (J)			
8/14/2020				0.00029 (J)		
9/22/2020	0.00017 (J)				0.00036 (J)	
9/23/2020		<0.0005	<0.0005			0.00013 (J)
9/24/2020				0.00024 (J)		
3/2/2021		<0.0005	<0.0005		0.00035 (J)	<0.0005
3/3/2021	0.00016 (J)			0.00023 (J)		
9/9/2021	<0.0005	<0.0005	<0.0005		0.00037 (J)	<0.0005
9/13/2021				0.00023 (J)		
1/20/2022						<0.0005
1/24/2022			<0.0005	0.00027 (J)		
1/25/2022	<0.0005	<0.0005			0.00041 (J)	
9/13/2022			<0.0005			
9/14/2022				0.00024 (J)	0.00032 (J)	
9/15/2022	0.00017 (J)	<0.0005				
9/20/2022						<0.0005
2/1/2023		<0.0005				
2/2/2023			<0.0005			
2/6/2023	<0.0005			0.00028 (J)	0.00029 (J)	<0.0005
9/8/2023		<0.0005	<0.0005		0.00034 (J)	
9/11/2023	<0.0005					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/13/2023				0.00019 (J)		<0.0005
1/31/2024		<0.0005				
2/1/2024					0.00029 (J)	<0.0005
2/2/2024	<0.0005					
2/5/2024			<0.0005			
2/6/2024				0.00027 (J)		
Mean	0.0004038	0.0004621	0.0004465	0.0002865	0.000373	0.0004
Std. Dev.	0.0001795	0.0001153	0.0002065	8.248E-05	5.814E-05	0.000209
Upper Lim.	0.0003215	0.0005	0.001	0.0003201	0.000406	0.0005
Lower Lim.	0.0002189	0.0002	0.00013	0.0002401	0.00034	0.00018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/2/2016	0.0023	0.0006 (J)	0.0003 (J)			
9/7/2016						0.0007 (J)
12/7/2016	0.0023					
12/8/2016		0.0006 (J)	0.0004 (J)			0.0003 (J)
3/28/2017					0.0006 (J)	
3/29/2017	0.0021		0.0004 (J)			
3/30/2017		0.0008 (J)		0.0002 (J)		
3/31/2017						0.0009 (J)
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	0.0021	0.0006 (J)		0.0002 (J)		
7/13/2017			0.0005 (J)			0.0008 (J)
10/24/2017					0.0007 (J)	
10/25/2017	0.002	0.0005 (J)	0.0007 (J)			0.0005 (J)
10/26/2017				0.0003 (J)		
2/27/2018					<0.001	
2/28/2018	0.0018	<0.0005	<0.001			<0.001
3/1/2018				<0.0005		
7/11/2018	0.0018	0.00054 (J)				0.0024
7/12/2018			0.00091 (J)	0.00028 (J)		
11/6/2018					<0.001 (J)	
11/7/2018	0.0018	<0.001 (J)	<0.001 (J)			<0.001 (J)
11/8/2018				<0.001 (J)		
8/27/2019					0.00072 (J)	
8/28/2019						0.0015 (J)
8/29/2019	0.002 (J)	0.00087 (J)	0.00053 (J)	0.00022 (J)		
10/15/2019					0.00077 (J)	
10/17/2019	0.0017 (J)	0.0006 (J)				0.00058 (J)
10/18/2019			0.00056 (J)	0.00022 (J)		
3/2/2020					0.00088 (J)	
3/3/2020		0.00063 (J)	0.00061 (J)			
3/4/2020	0.0026			0.00024 (J)		0.00037 (J)
8/12/2020					0.0008 (J)	
8/13/2020	0.0021 (J)			0.00027 (J)		0.0013 (J)
8/14/2020		0.00054 (J)	0.00057 (J)			
9/22/2020	0.0014 (J)				0.00065 (J)	0.0007 (J)
9/24/2020		0.00073 (J)	0.00058 (J)	0.00018 (J)		
3/1/2021					0.00085	
3/2/2021	0.0025					
3/3/2021		0.00044 (J)	0.0005	0.00015 (J)		0.00038 (J)
9/9/2021		0.00012 (J)		0.00019 (J)		
9/10/2021	0.0012		0.00061		0.0009	
9/13/2021						0.00042 (J)
1/20/2022		<0.0005	0.00052	0.00012 (J)		0.00038 (J)
1/21/2022	0.0028					
1/24/2022					0.00098	
9/13/2022						0.00069
9/15/2022	0.0021	0.00029 (J)				
9/16/2022			0.00065			
9/19/2022					0.00091	
9/20/2022				0.00017 (J)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
2/1/2023						0.00075
2/3/2023					0.001	
2/6/2023			0.00045 (J)	0.00021 (J)		
2/7/2023	0.0027	0.00059				
9/11/2023	0.0038	0.00054	0.0006	<0.0005		
9/13/2023					0.00099	0.00068
1/30/2024						0.001
1/31/2024		0.00057	0.00055	0.00012 (J)		
2/1/2024	0.003				0.00099	
Mean	0.002205	0.000578	0.000547	0.0002785	0.00076	0.0007675
Std. Dev.	0.000588	0.0001885	0.000126	0.0001983	0.0001787	0.0004936
Upper Lim.	0.002539	0.000685	0.0006186	0.0003201	0.0008647	0.0009629
Lower Lim.	0.001871	0.000471	0.0004754	0.0001806	0.0006553	0.0004983

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016				0.0019	0.0004 (J)
8/31/2016			0.0002 (J)		
9/1/2016	0.0017	0.0013			
12/6/2016			0.0004 (J)	0.0025	0.0005 (J)
12/8/2016	0.0002 (J)	0.0042			
3/28/2017			0.0002 (J)		0.0005 (J)
3/29/2017				0.0024	
3/30/2017		0.0089			
3/31/2017	0.002				
7/11/2017			0.0003 (J)	0.0021	0.0005 (J)
7/13/2017	0.0017	0.0033			
10/24/2017				0.0029	0.0006 (J)
10/25/2017			0.0006 (J)		
10/26/2017	0.0015	0.0032			
2/27/2018			<0.001	0.0029	<0.001
3/1/2018	0.0025				
3/2/2018		0.0049			
7/11/2018					0.00067 (J)
7/12/2018	0.0021	0.0032			
11/6/2018			<0.001 (J)	0.0027	<0.001 (J)
11/7/2018	0.0016	0.0031			
8/27/2019			0.00082 (J)		0.00071 (J)
8/28/2019				0.0022 (J)	
8/29/2019	0.0021 (J)	0.003			
10/16/2019			0.00069 (J)	0.0022 (J)	
10/17/2019	0.0033				0.00064 (J)
10/18/2019		0.0028			
3/2/2020			0.00089 (J)		
3/3/2020				0.002 (J)	0.00059 (J)
3/4/2020	0.0017 (J)	0.0036			
8/11/2020					0.00059 (J)
8/12/2020	0.001 (J)		0.00079 (J)	0.0021 (J)	
8/13/2020		0.0028			
9/22/2020			0.00072 (J)		0.00059 (J)
9/23/2020	0.0013 (J)	0.0025		0.0018 (J)	
3/2/2021			0.00075	0.0017	0.00057
3/3/2021	0.0016	0.0033			
9/10/2021	0.0014	0.0028	0.00093		0.00053
9/13/2021				0.002	
1/21/2022	0.0019				
1/24/2022		0.0029	0.00094		
1/25/2022				0.0016	
1/26/2022					0.00059
9/13/2022	0.0011	0.0026			
9/14/2022			0.00087		
9/15/2022				0.0011	
9/19/2022					0.00076
2/3/2023	0.0013	0.0024			0.00053
2/7/2023			0.0012	0.00087	
9/12/2023	0.00083			0.0015	
9/13/2023		0.0026	0.0013		
2/1/2024			0.0012	0.0011	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/5/2024	0.0011	0.0022			
Mean	0.001597	0.00328	0.0007263	0.001977	0.0005706
Std. Dev.	0.0006538	0.001513	0.0003239	0.0005801	8.734E-05
Upper Lim.	0.001968	0.003759	0.0009159	0.002317	0.0006234
Lower Lim.	0.001225	0.002485	0.0005367	0.001638	0.0005177

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-104D	B-106D	B-56	B-62
1/30/2019						<0.005
9/11/2019						<0.005
10/21/2019						0.00098 (J)
8/13/2020						<0.005
8/17/2020	<0.005				0.0014 (J)	
9/24/2020						<0.005
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			
3/3/2021					0.00059 (J)	
3/4/2021			<0.005	<0.005		
3/5/2021		<0.005				
3/8/2021	0.00057 (J)					
3/12/2021						<0.005
9/9/2021						<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					<0.005
9/13/2022			<0.005			
9/16/2022		<0.005		<0.005	<0.005	
2/2/2023	<0.005					<0.005
2/3/2023		<0.005	<0.005			
2/7/2023				0.0013 (J)	<0.005	
9/6/2023	<0.005					
9/7/2023						<0.005
9/8/2023		<0.005			<0.005	
9/11/2023				<0.005		
9/13/2023			<0.005			
1/31/2024	<0.005					
2/1/2024						<0.005
2/2/2024		<0.005		<0.005		
2/5/2024			<0.005		<0.005	
Mean	0.004057	0.00455	0.004567	0.004537	0.00371	0.004665
Std. Dev.	0.001874	0.001273	0.0013	0.001308	0.001949	0.00116
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00057	0.0014	0.0011	0.0013	0.00059	0.00098

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-63	B-77	B-82	B-83	B-88	B-93
1/28/2019	<0.005					
9/11/2019	<0.005					
9/18/2019		0.00068 (J)				
9/23/2019			0.0011 (J)			
10/21/2019			<0.005	0.0017 (J)		
10/22/2019	0.00064 (J)					
10/24/2019		<0.005				
8/13/2020		0.0021 (J)				
8/14/2020				0.005 (J)		
8/17/2020			<0.005		0.0014 (J)	
8/19/2020						0.00057 (J)
9/24/2020		0.0007 (J)				
9/25/2020				0.0051 (J)	0.00085 (J)	
9/28/2020			<0.005			0.00066 (J)
3/4/2021		0.00098 (J)		0.0049 (J)		
3/5/2021					0.0017 (J)	
3/9/2021						<0.005
9/13/2021					<0.005	
9/14/2021	<0.005	<0.005	<0.005			
9/15/2021						<0.005
9/16/2021				0.003 (J)		
1/20/2022	<0.005	<0.005				
1/21/2022				0.0034 (J)		
1/25/2022			<0.005			
1/26/2022						0.0011 (J)
1/27/2022					<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	
1/31/2023						<0.005
2/2/2023	<0.005					
2/3/2023				0.0026 (J)		
2/6/2023		<0.005				
2/7/2023			0.0013 (J)		<0.005	
9/6/2023						<0.005
9/7/2023	0.0013 (J)					
9/11/2023			<0.005			
9/12/2023		<0.005		0.0022 (J)	<0.005	
1/30/2024						0.0024 (J)
2/1/2024	<0.005		<0.005	0.0023 (J)		
2/5/2024		<0.005			<0.005	
Mean	0.004104	0.003587	0.00424	0.00324	0.003772	0.003303
Std. Dev.	0.001785	0.001994	0.001603	0.001301	0.001854	0.002077
Upper Lim.	0.005	0.005	0.005	0.0044	0.005	0.005
Lower Lim.	0.00064	0.0007	0.0013	0.00208	0.00085	0.00057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 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		<0.005	<0.005			
9/1/2016				<0.005		
9/6/2016					<0.005	<0.005
12/6/2016		<0.005	<0.005			
12/7/2016				<0.005	<0.005	<0.005
3/29/2017		0.0008 (J)	<0.005	<0.005		
3/30/2017					0.0009 (J)	0.0005 (J)
7/12/2017		0.0006 (J)	<0.005	<0.005	<0.005	<0.005
10/24/2017		0.0007 (J)	<0.005			
10/25/2017				<0.005		<0.005
11/15/2017					<0.005	
2/27/2018		<0.005	<0.005	<0.005		
2/28/2018					<0.005	<0.005
7/11/2018				<0.005		<0.005
11/6/2018		<0.005	<0.005			
11/7/2018				<0.005	<0.005	<0.01 (J)
8/27/2019		0.00083 (J)	0.0006 (J)	<0.005		
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)
3/2/2020			0.0006 (J)	<0.005		
3/3/2020		0.00092 (J)			0.00066 (J)	0.00046 (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)
9/22/2020			0.00058 (J)	<0.005		
9/23/2020					0.00059 (J)	<0.005
9/24/2020		0.001 (J)				
3/2/2021			<0.005		<0.005	<0.005
3/3/2021				0.00099 (J)		
3/4/2021		0.0009 (J)				
9/9/2021			<0.005	<0.005	<0.005	<0.005
9/10/2021		<0.005				
9/15/2021	<0.005					
1/24/2022						<0.005
1/25/2022			<0.005	<0.005	<0.005	
1/26/2022	0.0013 (J)	0.0011 (J)				
9/13/2022	<0.005					<0.005
9/15/2022		<0.005	<0.005	<0.005	<0.005	
1/31/2023	0.0014 (J)					
2/1/2023					<0.005	
2/2/2023		0.0013 (J)				<0.005
2/6/2023			<0.005	<0.005		
9/6/2023	<0.005					
9/8/2023			<0.005		<0.005	<0.005
9/11/2023		0.0016 (J)		<0.005		
1/30/2024	<0.005					
1/31/2024					<0.005	
2/1/2024			<0.005			
2/2/2024		<0.005		<0.005		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 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
2/5/2024						<0.005
Mean	0.003783	0.002447	0.004073	0.004616	0.004099	0.004567
Std. Dev.	0.001885	0.002014	0.001844	0.001214	0.001792	0.002073
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.01
Lower Lim.	0.0013	0.0008	0.00061	0.00099	0.0009	0.0048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-17	DGWC-19	DGWC-2	DGWC-20	DGWC-21	DGWC-22
9/1/2016		0.0031 (J)				
9/2/2016				0.0017 (J)	<0.005	0.0012 (J)
9/7/2016	0.0026 (J)					
12/7/2016		<0.01		<0.005		
12/8/2016	0.0025 (J)				<0.005	<0.005
3/29/2017		0.0025 (J)		0.0016 (J)		<0.005
3/30/2017	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	0.0022 (J)	0.0023 (J)		<0.005	0.0006 (J)	
7/13/2017						<0.005
10/24/2017			<0.005			
10/25/2017	0.0024 (J)	0.0024 (J)		0.0015 (J)	<0.005	<0.005
2/27/2018			<0.005			
2/28/2018	<0.01	<0.01		<0.005	<0.005	<0.005
7/11/2018	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	
7/12/2018						<0.005
11/6/2018			<0.005			
11/7/2018	<0.01	<0.01 (J)		<0.01 (J)	<0.005	<0.005
8/27/2019	0.0031 (J)		0.0004 (J)			
8/28/2019		0.0028 (J)				
8/29/2019				0.0017 (J)	0.00041 (J)	<0.005
10/16/2019		0.0024 (J)				
10/17/2019			0.00046 (J)	0.0015 (J)	<0.005	
10/18/2019	0.0027 (J)					<0.005
3/3/2020		0.0028 (J)	<0.005		0.00048 (J)	<0.005
3/4/2020	0.0035 (J)			0.0032 (J)		
8/11/2020		0.0024 (J)	0.00067 (J)			
8/13/2020				0.0023 (J)		
8/14/2020	0.0033 (J)				<0.005	<0.005
9/22/2020		0.003 (J)		0.0013 (J)		
9/23/2020			<0.005			
9/24/2020	0.0029 (J)				0.00096 (J)	<0.005
3/2/2021		0.0024 (J)	0.00064 (J)	0.0022 (J)		
3/3/2021	0.0028 (J)				0.002 (J)	<0.005
9/9/2021		0.003 (J)	<0.005		<0.005	
9/10/2021				<0.005		<0.005
9/13/2021	0.0027 (J)					
1/20/2022			<0.005		<0.005	<0.005
1/21/2022				0.0021 (J)		
1/24/2022	0.0029 (J)					
1/25/2022		0.0029 (J)				
9/14/2022	0.0023 (J)	0.0024 (J)				
9/15/2022				0.0014 (J)	<0.005	
9/16/2022						<0.005
9/20/2022			<0.005			
2/6/2023	0.0026 (J)	0.0022 (J)	<0.005			<0.005
2/7/2023				0.0023 (J)	<0.005	
9/8/2023		0.0021 (J)				
9/11/2023				0.0026 (J)	<0.005	<0.005
9/13/2023	0.0027 (J)		<0.005			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 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
1/31/2024					<0.005	<0.005
2/1/2024		0.0024 (J)	<0.005	0.0021 (J)		
2/6/2024	0.0029 (J)					
Mean	0.002955	0.003665	0.003658	0.003125	0.003747	0.00481
Std. Dev.	0.0007688	0.002746	0.002103	0.002145	0.001988	0.0008497
Upper Lim.	0.0031	0.003	0.005	0.002065	0.005	0.005
Lower Lim.	0.0025	0.0023	0.00064	0.001513	0.00096	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
8/31/2016						<0.005
9/1/2016				<0.005	<0.005	
9/7/2016			<0.005			
12/6/2016						<0.005
12/8/2016			<0.005	<0.005	<0.005	
3/28/2017		0.0005 (J)				<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				<0.005
7/12/2017	0.0007 (J)					
7/13/2017			0.0008 (J)	<0.005	0.0007 (J)	
10/24/2017		<0.005				
10/25/2017			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			
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	
11/6/2018		<0.005				<0.005
11/7/2018			<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	<0.005			<0.005	<0.005	
10/15/2019		<0.005				
10/16/2019						<0.005
10/17/2019			0.00041 (J)	<0.005		
10/18/2019	0.00041 (J)				<0.005	
3/2/2020		<0.005				0.00045 (J)
3/4/2020	0.00081 (J)		0.00042 (J)	<0.005	0.0004 (J)	
8/12/2020		<0.005		<0.005		<0.005
8/13/2020	0.00085 (J)		0.0021 (J)		<0.005	
9/22/2020		<0.005	0.001 (J)			<0.005
9/23/2020				<0.005	<0.005	
9/24/2020	0.00084 (J)					
3/1/2021		<0.005				
3/2/2021						<0.005
3/3/2021	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			
1/21/2022				<0.005		
1/24/2022		<0.005			<0.005	<0.005
9/13/2022			<0.005	<0.005	<0.005	
9/14/2022						<0.005
9/19/2022		<0.005				
9/20/2022	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-23	DGWC-4	DGWC-42	DGWC-47	DGWC-48	DGWC-5
2/1/2023			<0.005			
2/3/2023		<0.005		<0.005	<0.005	
2/6/2023	<0.005					
2/7/2023						<0.005
9/11/2023	<0.005					
9/12/2023				<0.005		
9/13/2023		<0.005	<0.005		<0.005	<0.005
1/30/2024			<0.005			
1/31/2024	<0.005					
2/1/2024		<0.005				<0.005
2/5/2024				<0.005	<0.005	
Mean	0.00289	0.004763	0.003561	0.004785	0.004555	0.004761
Std. Dev.	0.002176	0.001032	0.002039	0.0009615	0.001371	0.001044
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0007	0.0005	0.001	0.0007	0.0007	0.00045

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-8	DGWC-9
8/30/2016	<0.005	<0.005
12/6/2016	<0.005	<0.005
3/28/2017		0.001 (J)
3/29/2017	0.0004 (J)	
7/11/2017	<0.005	<0.005
10/24/2017	<0.005	<0.005
2/27/2018	<0.005	<0.005
7/11/2018		<0.005
11/6/2018	<0.005	<0.005
8/27/2019		0.00048 (J)
8/28/2019	<0.005	
10/16/2019	0.0013 (J)	
10/17/2019		0.00051 (J)
3/3/2020	0.00061 (J)	0.0057 (J)
8/11/2020		0.00061 (J)
8/12/2020	0.0028 (J)	
9/22/2020		<0.005
9/23/2020	0.00086 (J)	
3/2/2021	0.0015 (J)	0.00059 (J)
9/10/2021		<0.005
9/13/2021	<0.005	
1/25/2022	<0.005	
1/26/2022		0.0029 (J)
9/15/2022	<0.005	
9/19/2022		<0.005
2/3/2023		0.0013 (J)
2/7/2023	<0.005	
9/12/2023	<0.005	
2/1/2024	<0.005	
Mean	0.003814	0.003505
Std. Dev.	0.00185	0.002082
Upper Lim.	0.005	0.005
Lower Lim.	0.0013	0.00061

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 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	
9/6/2023	0.031					
9/8/2023		0.0032 (J)				
9/11/2023			0.01		<0.005	
9/12/2023						0.001 (J)
9/13/2023				0.18		
1/31/2024	0.065					
2/1/2024						0.00088 (J)
2/2/2024		0.0026 (J)	0.0088		<0.005	
2/5/2024				0.16		
Mean	0.04623	0.002875	0.01242	0.1556	0.003391	0.000975
Std. Dev.	0.02782	0.0004862	0.002111	0.03504	0.002222	0.0003433
Upper Lim.	0.06941	0.00339	0.01446	0.1871	0.005	0.001339
Lower Lim.	0.02304	0.00236	0.01038	0.1248	0.00056	0.0006112

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	B-56	B-62
1/30/2019						<0.005
9/11/2019						0.0003 (J)
10/21/2019						0.00031 (J)
8/13/2020						<0.005
8/17/2020					0.042	
9/24/2020						<0.005
9/28/2020					0.042	
12/9/2020	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
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			
1/20/2022			0.0045 (J)			<0.005
1/24/2022	0.00061 (J)	0.00041 (J)				
1/27/2022					0.052	
6/6/2022				0.006		
9/8/2022						<0.005
9/9/2022						<0.005
9/14/2022		<0.005				
9/15/2022	0.001 (J)					
9/16/2022					0.051	
9/19/2022			0.0027 (J)			
2/2/2023						<0.005
2/3/2023			0.0025 (J)			
2/6/2023				0.007		
2/7/2023	0.001 (J)	0.0004 (J)			0.059	
9/7/2023				0.011		<0.005
9/8/2023					0.057	
9/12/2023			0.0022 (J)			
9/13/2023	0.00045 (J)	<0.005				
2/1/2024	0.12			0.0087		<0.005
2/5/2024		<0.005	0.0018 (J)		0.07	
Mean	0.01641	0.002532	0.005171	0.008175	0.05222	0.004278
Std. Dev.	0.04188	0.002344	0.005384	0.002188	0.008857	0.001763
Upper Lim.	0.12	0.005	0.009463	0.01314	0.06077	0.005
Lower Lim.	0.00045	0.0004	0.001518	0.003207	0.04367	0.00031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 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	0.053					
1/30/2019		<0.01				
9/11/2019	0.043					
9/12/2019		0.006				
9/18/2019			0.0031 (J)			
9/23/2019				0.0038 (J)		
10/21/2019		0.0074		0.0089	0.018	
10/22/2019	0.046					
10/24/2019			0.0021 (J)			
11/22/2019						0.018 (J)
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	0.046	0.01		0.0021 (J)		
9/13/2021						0.0018 (J)
9/14/2021	0.037	0.012	<0.005	0.0015 (J)		
9/16/2021					0.011	
1/20/2022	0.039		<0.005			
1/21/2022					0.011	
1/25/2022		0.013		0.0039 (J)		
1/27/2022						0.0038 (J)
9/13/2022			<0.005 (D)		0.012	
9/14/2022	0.0465 (D)					
9/16/2022		0.012 (D)		0.00175 (JD)		0.00135 (JD)
2/2/2023	0.027					
2/3/2023					0.012	
2/6/2023			<0.005			
2/7/2023		0.015		0.0028 (J)		0.0031 (J)
9/7/2023	0.047					
9/11/2023		0.02		0.0024 (J)		
9/12/2023			<0.005		0.015	0.0022 (J)
2/1/2024	0.03	0.019		0.0021 (J)	0.017	
2/5/2024			0.00032 (J)			0.0018 (J)
Mean	0.04145	0.01194	0.003065	0.003395	0.01342	0.005865
Std. Dev.	0.00816	0.005089	0.002	0.002138	0.004208	0.00755
Upper Lim.	0.04873	0.01648	0.005	0.00485	0.01717	0.018
Lower Lim.	0.03417	0.007399	0.0004	0.001829	0.009666	0.0015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 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					0.193	<0.01
12/6/2016					0.2	0.0006 (J)
3/29/2017					0.184	<0.01
7/12/2017					0.177	<0.01
10/24/2017					0.175	<0.01
2/27/2018					0.2	<0.01
11/6/2018					0.2	<0.01
8/27/2019					0.13	0.00076 (J)
10/15/2019					0.17	0.0006 (J)
12/19/2019		0.066				
2/17/2020				<0.005		
3/2/2020						0.00078 (J)
3/3/2020					0.18	
8/11/2020					0.11	0.00055 (J)
8/19/2020		0.068				
9/22/2020						0.00098 (J)
9/24/2020					0.086	
9/28/2020		0.064				
3/2/2021						0.00065 (J)
3/4/2021					0.071	
3/9/2021		0.061				
3/15/2021				<0.005		
9/9/2021						0.00081 (J)
9/10/2021					0.076	
9/15/2021	0.063	0.062	0.003 (J)	0.0048 (J)		
1/25/2022						0.0015 (J)
1/26/2022	0.071	0.064	0.003 (J)	<0.005	0.099	
9/12/2022	0.073	0.057				
9/13/2022			0.0029 (J)	0.00063 (J)		
9/15/2022					0.055	0.001 (J)
1/31/2023	0.08	0.067		<0.005		
2/1/2023			0.0033 (J)			
2/2/2023					0.11	
2/6/2023						0.0013 (J)
9/6/2023	0.034	0.041	0.0029 (J)	<0.005		
9/8/2023						0.0011 (J)
9/11/2023					0.11	
1/30/2024	0.06	0.031		<0.005		
1/31/2024			0.0032 (J)			
2/1/2024						0.00082 (J)
2/2/2024					0.064	
Mean	0.0635	0.0581	0.00305	0.004429	0.1363	0.003761
Std. Dev.	0.01613	0.0123	0.0001643	0.001537	0.05251	0.004361
Upper Lim.	0.08566	0.06723	0.003276	0.005	0.193	0.01
Lower Lim.	0.04134	0.05084	0.002824	0.00063	0.076	0.00065

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/1/2016	0.0021 (J)				0.0553	
9/6/2016		<0.005	0.0042 (J)			
9/7/2016				0.0247		
12/7/2016	0.0026 (J)	<0.005	0.0028 (J)		0.0561	
12/8/2016				0.029		
3/29/2017	0.0026 (J)				0.0534	
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	0.0033 (J)	0.0004 (J)	0.002 (J)	0.023	0.0489	
10/24/2017						0.0292
10/25/2017	0.0021 (J)		0.0019 (J)	0.0259	0.0514	
11/15/2017		<0.005				
2/27/2018	<0.01					0.042
2/28/2018		<0.005	<0.01	0.02	0.0511	
7/11/2018	0.002 (J)		0.0018 (J)	0.025	0.051	0.02
11/6/2018						0.024
11/7/2018	<0.01 (J)	<0.005	0.025	<0.01 (J)	0.048	
8/27/2019	0.0021 (J)			0.031		0.0088
8/28/2019		<0.005	0.0015 (J)		0.048	
9/17/2019	0.0079					
10/15/2019	0.0058					
10/16/2019		<0.005			0.046	
10/17/2019			0.0018 (J)			0.0084
10/18/2019				0.023		
3/2/2020	0.029					
3/3/2020		<0.005	0.0018 (J)		0.054	0.0073
3/4/2020				0.023		
8/11/2020	0.006				0.049	0.0064
8/12/2020		<0.005				
8/13/2020			0.0024 (J)			
8/14/2020				0.026		
9/22/2020	0.013				0.051	
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
3/3/2021	0.01			0.016		
9/9/2021	0.034	<0.005	0.0016 (J)		0.055	0.0048 (J)
9/13/2021				0.019		
1/20/2022						0.004 (J)
1/24/2022			0.0015 (J)	0.019		
1/25/2022	0.018	<0.005			0.054	
9/13/2022			0.0016 (J)			
9/14/2022				0.016	0.052	
9/15/2022	0.025	<0.005				
9/20/2022						0.0028 (J)
2/1/2023		<0.005				
2/2/2023			0.0017 (J)			
2/6/2023	0.016			0.017	0.055	0.0024 (J)
9/8/2023		<0.005	0.0018 (J)		0.051	
9/11/2023	0.017					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-12	DGWC-13	DGWC-15	DGWC-17	DGWC-19	DGWC-2
9/13/2023				0.02		0.0024 (J)
1/31/2024		<0.005				
2/1/2024					0.056	0.0027 (J)
2/2/2024	0.015					
2/5/2024			0.0019 (J)			
2/6/2024				0.018		
Mean	0.01064	0.004278	0.00329	0.02184	0.05186	0.01392
Std. Dev.	0.009566	0.001713	0.005192	0.005999	0.002929	0.01188
Upper Lim.	0.01395	0.005	0.0024	0.02525	0.05352	0.01846
Lower Lim.	0.004776	0.0005	0.0016	0.01844	0.0502	0.006234

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
9/2/2016	0.497	0.0085 (J)	0.0102			
9/7/2016						0.0695
12/7/2016	0.614					
12/8/2016		0.0095 (J)	0.0079 (J)			0.0652
3/28/2017					0.0018 (J)	
3/29/2017	0.443		0.0097 (J)			
3/30/2017		0.0076 (J)		<0.005		
3/31/2017						0.0524
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	0.538	0.0092 (J)		<0.005		
7/13/2017			0.0106			0.0481
10/24/2017					0.0017 (J)	
10/25/2017	0.432	0.0092 (J)	0.0094 (J)			0.0435
10/26/2017				<0.005		
2/27/2018					<0.01	
2/28/2018	0.459	<0.01	<0.01			0.0167
3/1/2018				<0.005		
7/11/2018	0.47	0.0097 (J)				0.019
7/12/2018			0.011	<0.005		
11/6/2018					<0.01 (J)	
11/7/2018	0.42	<0.01 (J)	<0.01 (J)			0.02
11/8/2018				<0.01 (J)		
8/27/2019					0.0018 (J)	
8/28/2019						0.029
8/29/2019	0.66	0.01	0.0094	0.00036 (J)		
10/15/2019					0.0018 (J)	
10/17/2019	0.57	0.01				0.03
10/18/2019			0.0084	<0.005		
3/2/2020					0.0021 (J)	
3/3/2020		0.01	0.0098			
3/4/2020	0.84			0.00043 (J)		0.014
8/12/2020					0.0018 (J)	
8/13/2020	0.73			0.00048 (J)		0.025
8/14/2020		0.0098	0.0087			
9/22/2020	0.47				0.0014 (J)	0.014
9/24/2020		0.01	0.01	<0.005		
3/1/2021					0.002 (J)	
3/2/2021	0.77					
3/3/2021		0.0087	0.0078	0.00039 (J)		0.0087
9/9/2021		0.0096		0.00049 (J)		
9/10/2021	0.45		0.0076		0.0019 (J)	
9/13/2021						0.008
1/20/2022		0.0076	0.0075	0.00058 (J)		0.0056
1/21/2022	0.95					
1/24/2022					0.0019 (J)	
9/13/2022						0.0069
9/15/2022	0.75	0.0081				
9/16/2022			0.0098			
9/19/2022					0.0018 (J)	
9/20/2022				0.00053 (J)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-22	DGWC-23	DGWC-4	DGWC-42
2/1/2023						0.0068
2/3/2023					0.0018 (J)	
2/6/2023			0.0058	0.00064 (J)		
2/7/2023	1	0.0088				
9/11/2023	1.4	0.0097	0.0074	0.00074 (J)		
9/13/2023					0.0018 (J)	0.008
1/30/2024						0.0076
1/31/2024		0.0097	0.0067	0.0007 (J)		
2/1/2024	1.3				0.0016 (J)	
Mean	0.6882	0.008785	0.008385	0.002782	0.002089	0.0249
Std. Dev.	0.2869	0.001504	0.001791	0.002794	0.001041	0.02028
Upper Lim.	0.8207	0.009608	0.009402	0.005	0.002	0.0327
Lower Lim.	0.5232	0.008439	0.007368	0.00048	0.0016	0.01241

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
8/30/2016				0.0568	0.0896
8/31/2016			0.055		
9/1/2016	0.536	0.539			
12/6/2016			0.0432	0.0873	0.122
12/8/2016	0.381	0.575			
3/28/2017			0.04		0.124
3/29/2017				0.0902	
3/30/2017		0.573			
3/31/2017	0.354				
7/11/2017			0.0351 (J)	0.0601	0.136
7/13/2017	0.396	0.531			
10/24/2017				0.123	0.151
10/25/2017			0.0209		
10/26/2017	0.383	0.482			
2/27/2018			0.024	0.126	0.163
3/1/2018	0.401				
3/2/2018		0.49			
7/11/2018					0.18
7/12/2018	0.36	0.46			
11/6/2018			0.019	0.077	0.2
11/7/2018	0.35	0.48			
8/27/2019			0.02		0.24
8/28/2019				0.051	
8/29/2019	0.28	0.42			
10/16/2019			0.022	0.054	
10/17/2019	0.26				0.21
10/18/2019		0.41			
3/2/2020			0.028		
3/3/2020				0.044	0.2
3/4/2020	0.28	0.42			
8/11/2020					0.22
8/12/2020	0.21		0.021	0.053	
8/13/2020		0.35			
9/22/2020			0.02		0.16
9/23/2020	0.17	0.37		0.04	
3/2/2021			0.021	0.033	0.18
3/3/2021	0.2	0.36			
9/10/2021	0.23	0.36	0.022		0.21
9/13/2021				0.028	
1/21/2022	0.24				
1/24/2022		0.34	0.025		
1/25/2022				0.019	
1/26/2022					0.22
9/13/2022	0.21	0.31			
9/14/2022			0.027		
9/15/2022				0.0046 (J)	
9/19/2022					0.25
2/3/2023	0.21	0.31			0.21
2/7/2023			0.021	0.0018 (J)	
9/12/2023	0.18			0.003 (J)	
9/13/2023		0.31	0.016		
2/1/2024			0.015	0.0013 (J)	

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-47	DGWC-48	DGWC-5	DGWC-8	DGWC-9
2/5/2024	0.18	0.27			
Mean	0.2906	0.418	0.02606	0.05016	0.1814
Std. Dev.	0.09913	0.09394	0.01028	0.0379	0.04426
Upper Lim.	0.3468	0.4713	0.02994	0.07235	0.2082
Lower Lim.	0.2343	0.3647	0.02014	0.02797	0.1546

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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)	
9/6/2023	0.326 (U)					
9/8/2023		1.57				
9/11/2023			1.25		0.61 (U)	
9/12/2023						0.907 (U)
9/13/2023				13.9		
1/31/2024	0.0563 (U)					
2/1/2024						0.666 (U)
2/2/2024		1.15	0.277 (U)		0.203 (U)	
2/5/2024				15.2		
Mean	0.6574	1.485	0.8694	13.47	0.6028	1.044
Std. Dev.	0.4203	0.5464	0.4474	2.689	0.2121	0.5426
Upper Lim.	1.063	2.064	1.301	16.06	0.8275	1.619
Lower Lim.	0.2516	0.9054	0.4375	10.87	0.378	0.4689

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	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				
3/3/2021					1.01 (U)	
3/4/2021	2.02					
3/5/2021		9.05				
3/12/2021						1.18 (U)
4/15/2021			2.31			
9/9/2021						1.7
9/13/2021					0.854 (U)	
9/14/2021	0.917 (U)	4.39	3.68			
1/20/2022			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		7.94		
9/15/2022	1.36					
9/16/2022					0.752 (U)	
9/19/2022			2.22			
2/2/2023						1.6
2/3/2023			1.81			
2/6/2023				8.22		
2/7/2023	0.975	6.24			1.01 (U)	
9/7/2023				14.9		2.24
9/8/2023					0.859 (U)	
9/12/2023			1.74			
9/13/2023	1.12	8.6				
2/1/2024	1.11			14.6		2.08
2/5/2024		1.33	1.93		0.988 (U)	
Mean	1.203	7.05	2.129	11.42	0.9827	1.743
Std. Dev.	0.3791	3.233	0.7729	3.855	0.1948	0.3213
Upper Lim.	1.605	10.17	3.047	14.9	1.171	2.011
Lower Lim.	0.8012	3.929	1.211	7.94	0.7946	1.475

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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
9/7/2023	0.988 (U)					
9/11/2023		0.736 (U)		0.212 (U)		
9/12/2023			1.16		0.0781 (U)	1.16
2/1/2024	0.922 (U)	0.294 (U)		0.485 (U)	0.466 (U)	
2/5/2024			0.952 (U)			1.09 (U)
Mean	1.31	0.6365	1.247	0.6184	0.5635	1.495
Std. Dev.	0.4592	0.3656	0.5941	0.2461	0.3762	0.7176
Upper Lim.	1.796	1.024	1.738	0.8561	0.8991	2.135
Lower Lim.	0.8227	0.249	0.7417	0.3808	0.2279	0.8615

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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)
9/6/2023	1.41	1.05	1.06 (U)	1.22		
9/8/2023						1.2
9/11/2023					1.09	
1/30/2024	1.63	1.04 (U)		0.597 (U)		
1/31/2024			1.4			
2/1/2024						0.104 (U)
2/2/2024					1.5	
Mean	1.68	1.219	1.413	1.24	1.274	0.9195
Std. Dev.	0.4226	0.3839	0.3775	0.7229	0.2913	0.4499
Upper Lim.	2.26	1.59	1.932	2.233	1.44	1.175
Lower Lim.	1.1	0.8486	0.8948	0.247	1.109	0.664

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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
9/8/2023		0.771 (U)	0.75 (U)	0.673 (U)		0.371 (U)
9/11/2023	1.02					
9/13/2023					1.02 (U)	
1/31/2024		1.04 (U)				
2/1/2024						0.347 (U)
2/2/2024	0.686 (U)					
2/5/2024			0.651 (U)	0.698 (U)		

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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
2/6/2024					0.234 (U)	
Mean	0.8721	1.14	0.821	1.021	0.7707	0.7319
Std. Dev.	0.6225	0.3835	0.311	0.7741	0.3405	0.386
Upper Lim.	1.226	1.358	0.9976	1.311	0.964	0.9511
Lower Lim.	0.5186	0.922	0.6444	0.5958	0.5773	0.5126

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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 4/3/2024 4:36 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
2/6/2023	0.5 (U)			0.975	1.44	
2/7/2023		1.92	0.582 (U)			
9/11/2023		1.45	0.429 (U)	0.58 (U)	1.28	
9/13/2023	0.864 (U)					0.964 (U)
1/31/2024			0.542 (U)	0.395 (U)	1.1	
2/1/2024	1.06	1.38				1.39
Mean	1.056	1.255	0.7749	0.9495	1.13	1.409
Std. Dev.	0.4185	0.4648	0.3776	0.4622	0.4737	0.3733
Upper Lim.	1.293	1.519	0.9893	1.212	1.399	1.621
Lower Lim.	0.8181	0.991	0.5604	0.687	0.8606	1.197

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2024 4:36 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 4/3/2024 4:36 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
2/3/2023		1.8	1.4			0.949 (U)
2/7/2023				1.26	0.737 (U)	
9/12/2023		2.19			0.63 (U)	
9/13/2023	1.59		1.22 (U)	1.23 (U)		
1/30/2024	0.822 (U)					
2/1/2024				1.18	1.18	
2/5/2024		1.39	1.55			
Mean	0.9067	2.165	1.835	1.331	0.6851	1.17
Std. Dev.	0.3842	0.8171	0.6708	0.5607	0.2723	0.3469
Upper Lim.	1.125	2.629	2.216	1.649	0.8397	1.38
Lower Lim.	0.6886	1.701	1.454	1.012	0.5305	0.9599

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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)	
9/6/2023	<0.1					
9/8/2023		<0.1				
9/11/2023			0.1		0.067 (J)	
9/12/2023						<0.1
9/13/2023				0.3		
1/31/2024	0.063 (J)					
2/1/2024						<0.1
2/2/2024		0.063 (J)	0.081 (J)		0.059 (J)	
2/5/2024				0.29		
Mean	0.08744	0.0785	0.08811	0.3556	0.06025	0.09413
Std. Dev.	0.01949	0.02587	0.0161	0.07091	0.01036	0.01662
Upper Lim.	0.1	0.11	0.1037	0.424	0.07123	0.1
Lower Lim.	0.052	0.051	0.07257	0.2871	0.04927	0.053

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	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				
3/3/2021					0.34	
3/4/2021	<0.1					
3/5/2021		0.51				
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	0.57	<0.1			
1/20/2022			<0.1			0.099 (J)
1/24/2022	<0.1	0.38				
1/27/2022					0.21	
6/6/2022				0.2		
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)			
2/2/2023						0.16
2/3/2023			0.052 (J)			
2/6/2023				0.21		
2/7/2023	<0.1	0.36			0.19	
9/7/2023				0.22		0.13
9/8/2023					0.24	
9/12/2023			<0.1			
9/13/2023	<0.1	0.36				
2/1/2024	0.13			0.18		0.14
2/5/2024		0.4	0.061 (J)		0.34	
Mean	0.09888	0.4011	0.08143	0.2025	0.2253	0.1611
Std. Dev.	0.01856	0.08388	0.02331	0.01708	0.07593	0.09675
Upper Lim.	0.13	0.4748	0.1	0.2413	0.2986	0.23
Lower Lim.	0.061	0.3273	0.052	0.1637	0.152	0.099

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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
9/7/2023	0.12					
9/11/2023		0.12		0.11		
9/12/2023			0.069 (J)		0.087 (J)	<0.1
2/1/2024	0.12	0.1		0.093 (J)	0.073 (J)	
2/5/2024			0.067 (J)			<0.1
Mean	0.18	0.2088	0.0859	0.1022	0.0878	0.09489
Std. Dev.	0.1125	0.1391	0.01462	0.04038	0.02487	0.01533
Upper Lim.	0.45	0.3347	0.1	0.1281	0.1035	0.1
Lower Lim.	0.12	0.09165	0.069	0.06033	0.06066	0.054

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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
9/6/2023	0.26	0.26	0.085 (J)	0.1		
9/8/2023						<0.1
9/11/2023					1.3	
1/30/2024	0.23	0.18		0.13		
1/31/2024			0.093 (J)			
2/1/2024						<0.1
2/2/2024					1.2	
Mean	0.235	0.3278	0.1002	0.138	1.52	0.0835
Std. Dev.	0.04278	0.0748	0.02165	0.03909	0.408	0.02423
Upper Lim.	0.2938	0.4	0.14	0.1917	1.745	0.1
Lower Lim.	0.1762	0.2556	0.085	0.0843	1.294	0.06

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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
9/8/2023		0.055 (J)	<0.1	<0.1		0.17
9/11/2023	0.13					
9/13/2023					0.1	
1/31/2024		0.079 (J)				
2/1/2024						0.19

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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
2/2/2024	0.12					
2/5/2024			0.054 (J)	0.065 (J)		
2/6/2024					0.1	
Mean	0.1458	0.1294	0.08352	0.0991	0.1671	0.3195
Std. Dev.	0.128	0.09325	0.02535	0.0404	0.1427	0.2859
Upper Lim.	0.1436	0.159	0.1	0.11	0.1891	0.3623
Lower Lim.	0.06376	0.08001	0.059	0.07	0.0845	0.1638

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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)		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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
9/19/2022						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)			
9/11/2023		1.5	0.054 (J)	0.054 (J)	0.1	
9/13/2023	0.083 (J)					<0.1
1/31/2024			<0.1	<0.1	0.074 (J)	
2/1/2024	0.067 (J)	1.4				<0.1
Mean	0.1279	0.7924	0.1006	0.1083	0.1535	0.1257
Std. Dev.	0.1402	0.4632	0.05973	0.06042	0.1391	0.1552
Upper Lim.	0.1	1.048	0.14	0.11	0.1722	0.17
Lower Lim.	0.06	0.5368	0.07	0.068	0.08528	0.096

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 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
2/1/2023	<0.1					
2/3/2023		0.45	0.48			0.9
2/7/2023				0.22	0.13	
9/12/2023		0.51			0.091 (J)	
9/13/2023	<0.1		0.51	0.14		
1/30/2024	<0.1					
2/1/2024				0.12	0.064 (J)	
2/5/2024		0.53	0.43			
Mean	0.09429	0.7571	0.8024	0.4645	0.2382	1.145
Std. Dev.	0.01912	0.4414	0.4261	0.432	0.2188	0.3161
Upper Lim.	0.1	1.001	0.9846	0.5219	0.2998	1.33
Lower Lim.	0.06	0.5136	0.5551	0.1966	0.1051	0.9596

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
3/21/2023	0.099 (J)
4/10/2023	0.13
9/14/2023	<0.1
2/5/2024	0.068 (J)
Mean	0.09925
Std. Dev.	0.02532
Upper Lim.	0.1501
Lower Lim.	0.04018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 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-108D
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
12/17/2020			3.7E-05 (J)			
1/11/2021			5E-05 (J)			
1/12/2021		<0.001		<0.001		
3/4/2021			5.9E-05 (J)	<0.001	<0.001	<0.001
3/5/2021		6.5E-05 (J)				
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	
9/15/2022			<0.001			<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
9/6/2023	<0.001					
9/8/2023		<0.001				
9/11/2023			<0.001			
9/12/2023					<0.001	
9/13/2023				<0.001		0.0025
1/31/2024	<0.001					
2/1/2024					<0.001	<0.001
2/2/2024		<0.001	<0.001			
2/5/2024				0.00047 (J)		
Mean	0.0007198	0.0008831	0.0006829	0.0008357	0.0008805	0.001188
Std. Dev.	0.0004215	0.0003306	0.0004757	0.0003425	0.000338	0.0005303
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0025
Lower Lim.	8.8E-05	6.5E-05	3.7E-05	5.1E-05	4.4E-05	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-111D	B-120D	B-56	B-63	B-77	B-82
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
10/22/2019				7.3E-05 (J)		
10/24/2019					<0.001	
8/13/2020					0.0016 (J)	
8/17/2020			0.00022 (J)			5.9E-05 (J)
9/24/2020					0.00021 (J)	
9/28/2020			9.1E-05 (J)			0.00011 (J)
12/9/2020	5.8E-05 (J)					
1/12/2021	5.1E-05 (J)					
3/3/2021			0.0001 (J)			
3/4/2021					0.00029 (J)	
3/5/2021	<0.001					
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			
9/13/2022					<0.001	
9/14/2022	<0.001			<0.001		
9/16/2022			<0.001			<0.001
9/19/2022		<0.001				
2/2/2023				<0.001		
2/3/2023		<0.001				
2/6/2023					<0.001	
2/7/2023	<0.001		<0.001			<0.001
9/7/2023				<0.001		
9/8/2023			<0.001			
9/11/2023						<0.001
9/12/2023		<0.001			<0.001	
9/13/2023	<0.001					
2/1/2024				<0.001		<0.001
2/5/2024	<0.001	<0.001	<0.001		0.00066 (J)	
Mean	0.0007899	0.0008843	0.0007123	0.0007911	0.0008255	0.0007329
Std. Dev.	0.0004169	0.0003062	0.000433	0.0004146	0.0004161	0.0004307
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.1E-05	0.00019	9.1E-05	4.7E-05	0.00029	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93	DGWC-10	DGWC-11	DGWC-12
8/31/2016				<0.005	<0.001	
9/1/2016						<0.001
12/6/2016				<0.005	<0.001	
12/7/2016						<0.001
3/29/2017				<0.005	<0.001	<0.001
7/12/2017				<0.005	<0.001	<0.001
10/24/2017				<0.005	<0.001	
10/25/2017						<0.001
2/27/2018				<0.005	<0.001	<0.001
7/11/2018						<0.001
11/6/2018				<0.005	<0.001	
11/7/2018						<0.001
8/27/2019				0.00024 (J)	0.00012 (J)	0.0001 (J)
9/17/2019						<0.001
10/15/2019				0.00014 (J)	7.6E-05 (J)	<0.001
10/21/2019	0.00012 (J)					
3/2/2020					0.00015 (J)	<0.001
3/3/2020				0.00011 (J)		
8/11/2020				7E-05 (J)	5.3E-05 (J)	<0.001
8/14/2020	0.00092 (J)					
8/17/2020		0.00081 (J)				
8/19/2020			0.00012 (J)			
9/22/2020					0.0001 (J)	0.00011 (J)
9/24/2020				0.00013 (J)		
9/25/2020	6.5E-05 (J)	0.00035 (J)				
9/28/2020			0.00012 (J)			
3/2/2021					<0.001	
3/3/2021						<0.001
3/4/2021	0.00017 (J)			9.2E-05 (J)		
3/5/2021		0.012				
3/9/2021			<0.001			
9/9/2021					<0.001	<0.001
9/10/2021				<0.005		
9/13/2021		<0.001				
9/15/2021			<0.001			
9/16/2021	<0.001					
1/21/2022	<0.001					
1/25/2022					<0.001	<0.001
1/26/2022			<0.001	<0.005		
1/27/2022		0.0022				
9/12/2022			<0.001			
9/13/2022	<0.001					
9/15/2022				<0.005	<0.001	<0.001
9/16/2022		<0.001				
1/31/2023			<0.001			
2/2/2023				<0.005		
2/3/2023	<0.001					
2/6/2023					<0.001	<0.001
2/7/2023		<0.001				
9/6/2023			<0.001			
9/8/2023					<0.001	
9/11/2023				<0.005		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-83	B-88	B-93	DGWC-10	DGWC-11	DGWC-12
9/12/2023	<0.001	0.0009 (J)				
1/30/2024			<0.001			
2/1/2024	<0.001				<0.001	
2/2/2024				<0.005		<0.001
2/5/2024		0.00073 (J)				
Mean	0.0007275	0.002221	0.0008044	0.003462	0.0007631	0.0009148
Std. Dev.	0.0004218	0.003701	0.000388	0.002326	0.0004077	0.0002692
Upper Lim.	0.001	0.012	0.001	0.005	0.001	0.001
Lower Lim.	0.00012	0.00035	0.00012	0.00013	0.00012	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
8/31/2016		<0.001				
9/1/2016					<0.001	
9/6/2016	<0.001		<0.001			
9/7/2016				<0.001		
12/6/2016		<0.001				
12/7/2016	<0.001		0.0002 (J)		<0.001	
12/8/2016				<0.001		
3/29/2017		<0.001			<0.001	
3/30/2017	0.0002 (J)		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	<0.001	0.0001 (J)	<0.001	<0.001	
10/24/2017						<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
2/28/2018	<0.001		<0.001	<0.001	<0.001	
7/11/2018		<0.001	<0.001	<0.001	<0.001	<0.001
11/6/2018						<0.001
11/7/2018	<0.001	<0.001	<0.001	<0.001	<0.001	
8/27/2019		<0.001		9E-05 (J)		6E-05 (J)
8/28/2019	<0.001		5.9E-05 (J)		0.00026 (J)	
10/16/2019	<0.001	<0.001			<0.001	
10/17/2019			<0.001			8.6E-05 (J)
10/18/2019				7.4E-05 (J)		
3/3/2020	<0.001	<0.001	<0.001		7E-05 (J)	<0.001
3/4/2020				0.00013 (J)		
8/11/2020		9.6E-05 (J)			5.3E-05 (J)	6.4E-05 (J)
8/12/2020	<0.001					
8/13/2020			0.0012 (J)			
8/14/2020				0.00017 (J)		
9/22/2020		4.4E-05 (J)			0.00016 (J)	
9/23/2020	9.8E-05 (J)		8.2E-05 (J)			9.4E-05 (J)
9/24/2020				7.9E-05 (J)		
3/2/2021	<0.001	8.3E-05 (J)	<0.001		4.5E-05 (J)	0.00014 (J)
3/3/2021				0.00015 (J)		
9/9/2021	<0.001	<0.001	<0.001		<0.001	<0.001
9/13/2021				<0.001		
1/20/2022						<0.001
1/24/2022			<0.001	<0.001		
1/25/2022	<0.001	<0.001			<0.001	
9/13/2022		<0.001	<0.001			
9/14/2022				<0.001	<0.001	
9/15/2022	<0.001					
9/20/2022						<0.001
2/1/2023	<0.001	<0.001				
2/2/2023			<0.001			
2/6/2023				<0.001	<0.001	<0.001
9/8/2023	<0.001	<0.001	<0.001		<0.001	
9/13/2023				<0.001		<0.001
1/31/2024	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-14	DGWC-15	DGWC-17	DGWC-19	DGWC-2
2/1/2024					<0.001	<0.001
2/5/2024		<0.001	<0.001			
2/6/2024				<0.001		
Mean	0.0009104	0.0008612	0.0007871	0.0006897	0.0007794	0.0006367
Std. Dev.	0.0002689	0.0003392	0.0004053	0.0004344	0.0003943	0.0004568
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0002	9.6E-05	0.0002	0.00013	0.00026	9.4E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-23	DGWC-4	DGWC-42	DGWC-47
9/1/2016						0.0005 (J)
9/2/2016	<0.01	0.0002 (J)				
9/7/2016					0.0002 (J)	
12/7/2016	<0.01					
12/8/2016		<0.001			0.0002 (J)	<0.001
3/28/2017				0.0002 (J)		
3/29/2017	<0.01					
3/30/2017		0.0004 (J)	<0.001			
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	<0.01	0.0001 (J)	<0.001			
7/13/2017					0.0004 (J)	0.0007 (J)
10/24/2017				<0.001		
10/25/2017	<0.01	<0.001			0.0002 (J)	
10/26/2017			<0.001			0.0009 (J)
2/27/2018				<0.001		
2/28/2018	<0.01	<0.001			<0.001	
3/1/2018			<0.001			<0.001
7/11/2018	<0.01	<0.001			0.00052 (J)	
7/12/2018			<0.001			0.001 (J)
11/6/2018				<0.001		
11/7/2018	<0.01	<0.001			<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	0.00015 (J)	0.00023 (J)	6.6E-05 (J)			0.0006 (J)
10/15/2019				0.0001 (J)		
10/17/2019	9.7E-05 (J)	4.6E-05 (J)			0.00026 (J)	0.0011 (J)
10/18/2019			<0.001			
3/2/2020				<0.001		
3/3/2020		0.00015 (J)				
3/4/2020	0.00068 (J)		<0.001		0.0001 (J)	0.00088 (J)
8/12/2020				<0.001		0.0004 (J)
8/13/2020	0.00044 (J)		<0.001		0.0016 (J)	
8/14/2020		<0.001				
9/22/2020	0.00013 (J)			<0.001	0.00074 (J)	
9/23/2020						0.00053 (J)
9/24/2020		0.00014 (J)	<0.001			
3/1/2021				0.00012 (J)		
3/2/2021	0.00047 (J)					
3/3/2021		<0.001	<0.001		0.00024 (J)	0.0007 (J)
9/9/2021		<0.001	<0.001			
9/10/2021	<0.01			<0.001		<0.001
9/13/2021					<0.001	
1/20/2022		<0.001	<0.001		<0.001	
1/21/2022	<0.01					<0.001
1/24/2022				<0.001		
9/13/2022					<0.001	<0.001
9/15/2022	<0.01	<0.001				
9/19/2022				<0.001		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-21	DGWC-23	DGWC-4	DGWC-42	DGWC-47
9/20/2022			<0.001			
2/1/2023					<0.001	
2/3/2023				<0.001		<0.001
2/6/2023			<0.001			
2/7/2023	<0.01	<0.001				
9/11/2023	<0.01	<0.001	<0.001			
9/12/2023						0.00024 (J)
9/13/2023				<0.001	0.00018 (J)	
1/30/2024					0.00017 (J)	
1/31/2024		<0.001	<0.001			
2/1/2024	<0.01			<0.001		
2/5/2024						0.00029 (J)
Mean	0.007098	0.0007133	0.0009533	0.0008142	0.0007785	0.000987
Std. Dev.	0.004549	0.000406	0.0002088	0.0003706	0.001077	0.0009812
Upper Lim.	0.01	0.001	0.001	0.001	0.0003921	0.001
Lower Lim.	0.00047	0.0002	6.6E-05	0.0002	0.0001782	0.00053

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 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			<0.001	<0.005
8/31/2016		0.0002 (J)		
9/1/2016	0.0008 (J)			
12/6/2016		0.0004 (J)	<0.001	<0.005
12/8/2016	0.0019 (J)			
3/28/2017		<0.001		<0.005
3/29/2017			0.0001 (J)	
3/30/2017	0.0035 (J)			
7/11/2017		<0.001	<0.001	<0.005
7/13/2017	0.002 (J)			
10/24/2017			<0.001	<0.005
10/25/2017		0.0024 (J)		
10/26/2017	0.0022 (J)			
2/27/2018		<0.001	<0.001	<0.005
3/2/2018	<0.001			
7/11/2018				<0.005
7/12/2018	0.0014 (J)			
11/6/2018		<0.001	<0.001	<0.005
11/7/2018	<0.005 (J)			
8/27/2019		5.1E-05 (J)		<0.005
8/28/2019			8.2E-05 (J)	
8/29/2019	0.001 (J)			
10/16/2019		8.5E-05 (J)	0.00029 (J)	
10/17/2019				<0.005
10/18/2019	0.00095 (J)			
3/2/2020		5.1E-05 (J)		
3/3/2020			0.00023 (J)	0.00017 (J)
3/4/2020	0.0012 (J)			
8/11/2020				<0.005
8/12/2020		6.3E-05 (J)	0.0007 (J)	
8/13/2020	0.00092 (J)			
9/22/2020		4.8E-05 (J)		0.00015 (J)
9/23/2020	0.001 (J)		0.00011 (J)	
3/2/2021		8E-05 (J)	0.00027 (J)	0.00028 (J)
3/3/2021	0.0011			
9/10/2021	0.00099 (J)	<0.001		<0.005
9/13/2021			<0.001	
1/24/2022	0.0011	<0.001		
1/25/2022			<0.001	
1/26/2022				<0.005
9/13/2022	0.00093 (J)			
9/14/2022		<0.001		
9/15/2022			<0.001	
9/19/2022				<0.005
2/3/2023	<0.001			<0.005
2/7/2023		<0.001	<0.001	
9/12/2023			<0.001	
9/13/2023	0.00082 (J)	<0.001		
2/1/2024		<0.001	<0.001	
2/5/2024	0.00077 (J)			
Mean	0.001479	0.0007041	0.0007254	0.0042
Std. Dev.	0.001058	0.0006039	0.0003896	0.001841

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-48	DGWC-5	DGWC-8	DGWC-9
Upper Lim.	0.0019	0.001	0.001	0.005
Lower Lim.	0.00093	6.3E-05	0.00023	0.00028

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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)	
9/6/2023	0.0023 (J)					
9/8/2023		0.015 (J)				
9/11/2023			0.0091 (J)		0.0045 (J)	
9/12/2023						0.012 (J)
9/13/2023				0.04		
1/31/2024	<0.03					
2/1/2024						0.014 (J)
2/2/2024		0.015 (J)	0.01 (J)		0.0051 (J)	
2/5/2024				0.037		
Mean	0.008367	0.0121	0.01212	0.038	0.0052	0.0145
Std. Dev.	0.01227	0.002666	0.00188	0.001581	0.000378	0.001414
Upper Lim.	0.03	0.01493	0.01394	0.03953	0.005601	0.016
Lower Lim.	0.0013	0.009274	0.01031	0.03647	0.004799	0.013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-108D	B-111D	B-120D	B-122D	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)				
3/3/2021					0.0051 (J)	
3/4/2021	0.014 (J)					
3/5/2021		0.028 (J)				
3/12/2021						0.0087 (J)
4/15/2021			0.088			
9/9/2021						0.0094 (J)
9/13/2021					0.0055 (J)	
9/14/2021	0.015 (J)	0.029 (J)	0.077			
1/20/2022			0.079			0.0092 (J)
1/24/2022	0.014 (J)	0.026 (J)				
1/27/2022					0.0061 (J)	
6/6/2022				0.013 (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			
2/2/2023						0.0082 (J)
2/3/2023			0.068			
2/6/2023				0.014 (J)		
2/7/2023	0.014 (J)	0.018 (J)			0.0054 (J)	
9/7/2023				0.013 (J)		0.0092 (J)
9/8/2023					0.0055 (J)	
9/12/2023			0.044			
9/13/2023	0.014 (J)	0.019 (J)				
2/1/2024	0.015 (J)			0.013 (J)		0.0094 (J)
2/5/2024		0.022 (J)	0.057		0.0061 (J)	
Mean	0.01475	0.02267	0.06986	0.01325	0.005556	0.01003
Std. Dev.	0.0008864	0.004	0.01494	0.0005	0.0003812	0.004749
Upper Lim.	0.016	0.02653	0.0876	0.014	0.005924	0.0094
Lower Lim.	0.014	0.0188	0.05211	0.013	0.005188	0.0078

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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)
9/7/2023	0.0069 (J)					
9/11/2023		<0.03		<0.03		
9/12/2023			<0.03		0.0021 (J)	0.004 (J)
2/1/2024	0.0052 (J)	<0.03		<0.03	0.0023 (J)	
2/5/2024			<0.03			0.0044 (J)
Mean	0.00806	0.02675	0.01493	0.007343	0.00256	0.006944
Std. Dev.	0.006004	0.009757	0.01446	0.012	0.0007604	0.008531
Upper Lim.	0.0072	0.03	0.03	0.03	0.003149	0.01085
Lower Lim.	0.0052	0.00073	0.0011	0.00078	0.001954	0.001899

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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)
9/6/2023	0.0095 (J)	0.013 (J)	0.0045 (J)	0.00097 (J)		
9/8/2023						0.0017 (J)
9/11/2023					0.0043 (J)	
1/30/2024	0.014 (J)	0.01 (J)		<0.03		
1/31/2024			0.0046 (J)			
2/1/2024						0.0016 (J)
2/2/2024					0.0042 (J)	
Mean	0.01325	0.01167	0.004667	0.00591	0.006284	0.003379
Std. Dev.	0.002139	0.001118	0.0003327	0.0118	0.00671	0.005249
Upper Lim.	0.01619	0.013	0.005124	0.03	0.0053	0.0027
Lower Lim.	0.01031	0.01	0.00421	0.00089	0.0033	0.0018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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)
9/8/2023		0.0031 (J)	0.0041 (J)	0.0051 (J)		0.0024 (J)
9/11/2023	<0.03					
9/13/2023					<0.03	
1/31/2024		0.0035 (J)				
2/1/2024						0.0024 (J)
2/2/2024	<0.03					
2/5/2024			0.0046 (J)	0.0059 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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
2/6/2024					<0.03	
Mean	0.02172	0.005563	0.005805	0.006016	0.02133	0.00418
Std. Dev.	0.01342	0.006857	0.005581	0.0008467	0.0136	0.004912
Upper Lim.	0.03	0.0037	0.0044	0.0063	0.03	0.0034
Lower Lim.	0.0011	0.003	0.0035	0.0057	0.0011	0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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
2/7/2023		0.013 (J)	0.0056 (J)			
9/11/2023		0.011 (J)	0.0055 (J)	0.0031 (J)	0.0036 (J)	
9/13/2023	0.017 (J)					0.004 (J)
1/31/2024			0.0065 (J)	0.0037 (J)	0.0024 (J)	
2/1/2024	0.017 (J)	0.012 (J)				0.0038 (J)
Mean	0.0421	0.008185	0.006935	0.004965	0.01005	0.004311
Std. Dev.	0.02885	0.006435	0.004272	0.00474	0.0165	0.005039
Upper Lim.	0.0781	0.01077	0.0065	0.0044	0.009735	0.0037
Lower Lim.	0.022	0.004021	0.0056	0.0035	0.003508	0.0026

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 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
2/7/2023				0.0072 (J)	0.0036 (J)	
9/12/2023		0.034			0.0045 (J)	
9/13/2023	0.0087 (J)		0.096	0.0081 (J)		
1/30/2024	0.0078 (J)					
2/1/2024				0.0075 (J)	0.0031 (J)	
2/5/2024		0.046	0.083			
Mean	0.011	0.06132	0.1112	0.007184	0.005937	0.02674
Std. Dev.	0.003891	0.01417	0.01689	0.004655	0.004786	0.003134
Upper Lim.	0.0124	0.06936	0.1208	0.008	0.0066	0.02864
Lower Lim.	0.008914	0.05327	0.1016	0.0046	0.0036	0.02485

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals
Plant McDonough Client: Southern Company Data: McDonough AP

	B-125D
3/16/2023	0.074
3/21/2023	0.078
4/10/2023	0.034
9/14/2023	0.031
2/5/2024	0.028 (J)
Mean	0.049
Std. Dev.	0.02478
Upper Lim.	0.078
Lower Lim.	0.028

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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
9/6/2023	<0.0002					
9/8/2023		<0.0002				
9/12/2023				<0.0002		
9/13/2023			<0.0002		<0.0002	<0.0002
1/31/2024	<0.0002					
2/1/2024				<0.0002	<0.0002	
2/2/2024		<0.0002				
2/5/2024			<0.0002			<0.0002
Mean	0.0001887	0.0002037	0.0001866	0.000195	0.0001925	0.0001882
Std. Dev.	3.182E-05	4.069E-05	4.033E-05	1.414E-05	2.121E-05	3.533E-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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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		
9/6/2023					<0.0002	<0.0002
9/8/2023	<0.0002					
9/11/2023		<0.0002	<0.0002			
9/12/2023				<0.0002		
1/30/2024					0.00015 (J)	0.00013 (J)
2/1/2024		<0.0002	<0.0002			
2/5/2024	0.00029			<0.0002		
Mean	0.0002211	0.00021	0.000191	0.0001789	0.0001733	0.000182
Std. Dev.	5.622E-05	3E-05	2.846E-05	4.197E-05	2.251E-05	5.207E-05
Upper Lim.	0.00034	0.00029	0.0002	0.0002	0.0001669	0.0002109
Lower Lim.	0.00016	0.0002	0.0002	0.0001	0.0001431	0.0001094

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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			
9/8/2023		0.00048		<0.0002	<0.0002	<0.0002
9/11/2023	0.0021		<0.0002			
1/31/2024				<0.0002		
2/1/2024		<0.0002				
2/2/2024	<0.0002		<0.0002			
2/5/2024					<0.0002	<0.0002
Mean	0.0002748	0.0001932	0.000165	0.0001874	0.0001795	0.000193
Std. Dev.	0.0004448	8.628E-05	5.939E-05	3.798E-05	5.031E-05	3.13E-05
Upper Lim.	0.0021	0.00048	0.0002	0.0002	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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
Lower Lim.	9E-05	8E-05	9E-05	9E-05	8E-05	6E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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	
9/8/2023		<0.0002				
9/11/2023				<0.0002	<0.0002	<0.0002
9/13/2023	<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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
1/31/2024					<0.0002	<0.0002
2/1/2024		<0.0002	<0.0002	<0.0002		
2/6/2024	<0.0002					
Mean	0.0001523	0.0001755	0.0002036	0.0001825	0.0001685	0.0001727
Std. Dev.	5.983E-05	5.286E-05	0.000112	4.278E-05	5.743E-05	5.149E-05
Upper Lim.	0.0002	0.0002	0.00064	0.0002	0.0002	0.0002
Lower Lim.	8.6E-05	0.00013	8.3E-05	9E-05	0.00012	0.00014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 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
9/11/2023	<0.0002					
9/12/2023						0.00013 (J)
9/13/2023		<0.0002	<0.0002	<0.0002	0.00028	
1/30/2024			<0.0002			
1/31/2024	<0.0002					
2/1/2024		<0.0002			0.00024	<0.0002
2/5/2024				<0.0002		
Mean	0.000189	0.0002054	0.000192	0.000193	0.0001986	0.000159
Std. Dev.	4.962E-05	0.0001014	3.578E-05	3.13E-05	0.0001102	5.805E-05
Upper Lim.	0.0002	0.00022	0.0002	0.0002	0.0002479	0.0002
Lower Lim.	0.00015	0.00013	4E-05	6E-05	0.0001341	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-100	B-101D	B-102D	B-104D	B-108D	B-111D
8/17/2020	<0.01					
9/25/2020	<0.01					
12/9/2020				0.0012 (J)	<0.01	0.0055 (J)
12/17/2020			<0.01			
1/11/2021			<0.01			
1/12/2021		0.0022 (J)		<0.01		0.0054 (J)
3/4/2021			<0.01	<0.01	<0.01	
3/5/2021		<0.01				0.0067 (J)
3/8/2021	<0.01					
9/10/2021			<0.01			
9/13/2021	<0.01	<0.01				
9/14/2021				<0.01	<0.01	0.013
1/21/2022	<0.01					
1/24/2022				0.00083 (J)	<0.01	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)		<0.01	
9/16/2022		<0.01				
2/2/2023	0.19		<0.01			
2/3/2023		<0.01		<0.01		
2/7/2023					<0.01	0.0077 (J)
9/6/2023	<0.01					
9/8/2023		<0.01				
9/11/2023			<0.01			
9/13/2023				0.00092 (J)	0.00078 (J)	0.0071 (J)
1/31/2024	<0.01					
2/1/2024					<0.01	
2/2/2024		<0.01	<0.01			
2/5/2024				<0.01		0.01
Mean	0.03	0.009025	0.009056	0.006994	0.008847	0.0075
Std. Dev.	0.06	0.002758	0.002833	0.004509	0.00326	0.002535
Upper Lim.	0.19	0.01	0.01	0.01	0.01	0.009773
Lower Lim.	0.01	0.0022	0.0015	0.00083	0.00078	0.005243

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-120D	B-122D	B-66	B-82	B-88	B-98
1/30/2019			<0.01			
9/12/2019			0.0018 (J)			
9/23/2019				<0.01		
10/21/2019			0.0015 (J)	<0.01		
8/17/2020				<0.01	0.0012 (J)	
9/25/2020					0.0012 (J)	
9/28/2020				<0.01		
3/5/2021					<0.01	
4/15/2021	0.00089 (J)					
9/13/2021					<0.01	
9/14/2021	<0.01		<0.01	<0.01		
9/15/2021						<0.01
1/20/2022	<0.01					
1/25/2022			<0.01	<0.01		
1/26/2022						0.0015 (J)
1/27/2022					<0.01	
6/6/2022		<0.01				
9/13/2022						0.00084 (J)
9/16/2022			<0.01	<0.01	<0.01	
9/19/2022	<0.01					
1/31/2023						0.0014 (J)
2/3/2023	<0.01					
2/6/2023		0.0011 (J)				
2/7/2023			<0.01	<0.01	<0.01	
9/6/2023						0.00075 (J)
9/7/2023		0.001 (J)				
9/11/2023			<0.01	0.00081 (J)		
9/12/2023	<0.01				<0.01	
1/30/2024						0.00095 (J)
2/1/2024		0.0011 (J)	<0.01	<0.01		
2/5/2024	<0.01				<0.01	
Mean	0.008699	0.0033	0.008144	0.009081	0.008044	0.002573
Std. Dev.	0.003443	0.004467	0.003683	0.002906	0.00388	0.003651
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.00089	0.001	0.0015	0.01	0.0012	0.00075

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-22	DGWC-23	DGWC-4
9/2/2016			<0.01		
9/6/2016	0.0371				
12/7/2016	0.0273				
12/8/2016			<0.01		
3/28/2017					0.008 (J)
3/29/2017			<0.01		
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)	
7/13/2017			<0.01		
10/24/2017		<0.01			0.0072 (J)
10/25/2017			<0.01		
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)		<0.01		
3/1/2018				0.0045 (J)	
7/11/2018		<0.01			
7/12/2018			<0.01	0.012	
11/6/2018		<0.01			<0.01 (J)
11/7/2018	0.018		<0.01		
11/8/2018				0.012	
8/27/2019		0.002 (J)			0.0065 (J)
8/28/2019	0.015				
8/29/2019			<0.01	0.014	
10/15/2019					0.0061 (J)
10/16/2019	0.014				
10/17/2019		0.0018 (J)			
10/18/2019			<0.01	0.0091 (J)	
3/2/2020					0.0059 (J)
3/3/2020	0.018	0.0022 (J)	<0.01		
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	
8/14/2020			<0.01		
9/22/2020					0.0028 (J)
9/23/2020	0.012	0.0022 (J)			
9/24/2020			<0.01	0.0088 (J)	
3/1/2021					0.0051 (J)
3/2/2021	0.011	0.0021 (J)			
3/3/2021			<0.01	0.0026 (J)	
9/9/2021	0.011	0.0023 (J)		0.01	
9/10/2021			<0.01		0.0052 (J)
1/20/2022		0.0022 (J)	<0.01	0.0073 (J)	
1/24/2022					0.0045 (J)
1/25/2022	0.0093 (J)				
9/15/2022	0.0094 (J)				
9/16/2022			<0.01		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-13	DGWC-2	DGWC-22	DGWC-23	DGWC-4
9/19/2022					0.0037 (J)
9/20/2022		0.0021 (J)		0.0095 (J)	
2/1/2023	0.0085 (J)				
2/3/2023					0.0035 (J)
2/6/2023		0.0021 (J)	<0.01	0.007 (J)	
9/8/2023	0.0073 (J)				
9/11/2023			0.00097 (J)	0.0088 (J)	
9/13/2023		0.0022 (J)			0.0034 (J)
1/31/2024	0.0081 (J)		<0.01	0.0069 (J)	
2/1/2024		0.0024 (J)			0.0027 (J)
Mean	0.01669	0.00437	0.009548	0.00872	0.0051
Std. Dev.	0.00937	0.003801	0.002019	0.002848	0.00152
Upper Lim.	0.01978	0.01	0.01	0.01034	0.00599
Lower Lim.	0.01076	0.002	0.00097	0.007103	0.00421

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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	
9/6/2023	<0.005					
9/8/2023		<0.005				
9/12/2023						0.0052
9/13/2023			0.0016 (J)	<0.005	<0.005	
1/31/2024	<0.005					
2/1/2024				0.025		
2/2/2024		<0.005				
2/5/2024			0.0015 (J)		<0.005	0.0045 (J)
Mean	0.004656	0.004762	0.003289	0.007075	0.004689	0.003486
Std. Dev.	0.001033	0.0006718	0.001691	0.00734	0.0009333	0.001499
Upper Lim.	0.005	0.005	0.005	0.025	0.005	0.005267
Lower Lim.	0.0019	0.0031	0.0015	0.0016	0.0022	0.001705

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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)	
9/6/2023						0.0049 (J)
9/8/2023	0.0087					
9/11/2023			0.0018 (J)			
9/12/2023		<0.005		0.02	0.0027 (J)	
1/30/2024						0.019
2/1/2024			0.0028 (J)	0.017		
2/5/2024	0.02	<0.005			0.0039 (J)	
Mean	0.01326	0.0047	0.00328	0.02002	0.002656	0.009183
Std. Dev.	0.006981	0.000995	0.001517	0.00559	0.0007178	0.005605
Upper Lim.	0.01895	0.005	0.005	0.02501	0.003349	0.01688
Lower Lim.	0.007557	0.005	0.0018	0.01503	0.001963	0.001484

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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	
9/6/2023	0.0071	0.0031 (J)	<0.005			
9/8/2023						0.0029 (J)
9/11/2023				0.038	<0.005	
1/30/2024	0.0063		<0.005			
1/31/2024		0.0032 (J)				0.0039 (J)
2/2/2024				0.031	<0.005	

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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
Mean	0.01302	0.002833	0.004717	0.03391	0.004186	0.004774
Std. Dev.	0.009469	0.0007607	0.000694	0.02005	0.002017	0.002816
Upper Lim.	0.01917	0.003878	0.005	0.04565	0.005	0.004094
Lower Lim.	0.00629	0.001788	0.0033	0.02217	0.0019	0.002191

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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)		<0.005	
5/11/2017					<0.005	
6/15/2017					<0.005	
7/11/2017					<0.005	
7/12/2017	<0.005	<0.005	0.0072 (J)	0.0065 (J)		0.0483
10/24/2017					<0.005	
10/25/2017	<0.005	<0.005	0.0078 (J)	0.0087 (J)		0.0506
2/27/2018	<0.005				<0.005	
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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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
9/8/2023	0.0015 (J)	<0.005		0.0045 (J)		
9/11/2023						0.14
9/13/2023			0.0065		<0.005	
2/1/2024				0.0051	0.0014 (J)	0.082
2/5/2024	0.0019 (J)	0.001 (J)				
2/6/2024			0.0081			
Mean	0.00374	0.00489	0.00762	0.00647	0.00453	0.05706
Std. Dev.	0.002235	0.001638	0.002149	0.002324	0.001918	0.02993
Upper Lim.	0.005	0.01	0.008592	0.00779	0.00421	0.07406
Lower Lim.	0.0016	0.0018	0.006434	0.00515	0.002321	0.04006

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 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
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
9/11/2023	<0.005					
9/12/2023			0.0022 (J)			<0.005
9/13/2023		<0.005		<0.005	0.002 (J)	
1/31/2024	<0.005					
2/1/2024		<0.005			0.0017 (J)	<0.005
2/5/2024			0.0032 (J)	0.0017 (J)		
Mean	0.004835	0.004811	0.00718	0.005295	0.02566	0.004695
Std. Dev.	0.0007379	0.0008259	0.00577	0.003077	0.03791	0.001831
Upper Lim.	0.005	0.005	0.009399	0.005853	0.03151	0.0069
Lower Lim.	0.0017	0.0014	0.003679	0.002472	0.007147	0.0031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	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 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-104D	B-56	B-66	B-82	B-83	B-88
1/30/2019			<0.001			
9/12/2019			<0.001			
9/23/2019				9.9E-05 (J)		
10/21/2019			<0.001	0.00011 (J)	7.2E-05 (J)	
8/14/2020					<0.001	
8/17/2020		0.00016 (J)		<0.001		<0.001
9/25/2020					<0.001	<0.001
9/28/2020		0.00023 (J)		<0.001		
12/9/2020	<0.001					
1/12/2021	<0.001					
3/3/2021		0.00026 (J)				
3/4/2021	<0.001				<0.001	
3/5/2021						0.0002 (J)
9/13/2021		0.00024 (J)				<0.001
9/14/2021	<0.001		<0.001	<0.001		
9/16/2021					<0.001	
1/21/2022					<0.001	
1/24/2022	<0.001					
1/25/2022			<0.001	<0.001		
1/27/2022		0.00032 (J)				<0.001
9/13/2022	<0.001				<0.001	
9/16/2022		0.00024 (J)	<0.001	<0.001		<0.001
2/3/2023	<0.001				<0.001	
2/7/2023		0.00028 (J)	<0.001	<0.001		<0.001
9/8/2023		0.00021 (J)				
9/11/2023			0.00021 (J)	<0.001		
9/12/2023					<0.001	<0.001
9/13/2023	0.00028 (J)					
2/1/2024			<0.001	<0.001	<0.001	
2/5/2024	<0.001	<0.001				<0.001
Mean	0.00092	0.0002711	0.0009122	0.0008209	0.0009072	0.0009111
Std. Dev.	0.00024	9.662E-05	0.0002633	0.0003776	0.0002935	0.0002667
Upper Lim.	0.001	0.0003565	0.001	0.001	0.001	0.001
Lower Lim.	0.00028	0.0001864	0.00021	0.00011	0.001	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	DGWC-10	DGWC-12	DGWC-14	DGWC-17	DGWC-19
8/31/2016		0.0004 (J)		<0.001		
9/1/2016			<0.001			0.0005 (J)
9/7/2016					<0.001	
12/6/2016		0.0004 (J)		<0.001		
12/7/2016			<0.001			0.0005 (J)
12/8/2016					<0.001	
3/29/2017		0.0006 (J)	8E-05 (J)	<0.001		0.0004 (J)
3/30/2017					0.0002 (J)	
7/12/2017		0.0005 (J)	9E-05 (J)	<0.001	0.0002 (J)	0.0005 (J)
10/24/2017		0.0004 (J)				
10/25/2017			9E-05 (J)	<0.001	0.0002 (J)	0.0004 (J)
2/27/2018		<0.005	<0.001	<0.001		
2/28/2018					0.00015 (J)	0.00049 (J)
7/11/2018			<0.001	<0.001	0.00017 (J)	0.0005 (J)
11/6/2018		<0.001 (J)				
11/7/2018			<0.001	<0.001	<0.001	<0.001 (J)
8/27/2019		0.00036 (J)	8.9E-05 (J)	<0.001	0.00018 (J)	
8/28/2019						0.00053 (J)
9/17/2019			9.7E-05 (J)			
10/15/2019		0.00039 (J)	9.1E-05 (J)			
10/16/2019				<0.001		0.00053 (J)
10/18/2019					0.00014 (J)	
3/2/2020			0.00013 (J)			
3/3/2020		0.00042 (J)		<0.001		0.0006 (J)
3/4/2020					0.00019 (J)	
8/11/2020		0.00037 (J)	<0.001	<0.001		0.00059 (J)
8/14/2020					0.00019 (J)	
9/22/2020			<0.001	<0.001		0.0005 (J)
9/24/2020		0.00034 (J)			0.00018 (J)	
3/2/2021				<0.001		0.00056 (J)
3/3/2021			<0.001		0.00017 (J)	
3/4/2021		0.00042 (J)				
9/9/2021			<0.001	<0.001		0.00056 (J)
9/10/2021		0.00027 (J)				
9/13/2021					<0.001	
9/15/2021	<0.001					
1/24/2022					<0.001	
1/25/2022			<0.001	<0.001		0.00057 (J)
1/26/2022	<0.001	0.00033 (J)				
9/12/2022	0.0002 (J)					
9/13/2022				<0.001		
9/14/2022					<0.001	0.00056 (J)
9/15/2022		<0.005	<0.001			
1/31/2023	0.00021 (J)					
2/1/2023				<0.001		
2/2/2023		<0.005				
2/6/2023			<0.001		<0.001	0.00059 (J)
9/6/2023	<0.001					
9/8/2023				0.00056 (J)		0.0005 (J)
9/11/2023		<0.005	0.00021 (J)			
9/13/2023					<0.001	
1/30/2024	<0.001					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	B-92	DGWC-10	DGWC-12	DGWC-14	DGWC-17	DGWC-19
2/1/2024						0.00057 (J)
2/2/2024		<0.005	<0.001			
2/5/2024				<0.001		
2/6/2024					<0.001	
Mean	0.000735	0.001642	0.0006608	0.000978	0.0005485	0.0005225
Std. Dev.	0.0004105	0.002067	0.0004438	9.839E-05	0.0004193	5.552E-05
Upper Lim.	0.001	0.005	0.001	0.001	0.001	0.000554
Lower Lim.	0.0002	0.00036	9.1E-05	0.00056	0.00018	0.000491

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47	DGWC-48
9/1/2016					0.0002 (J)	<0.001
9/2/2016	<0.01	<0.001				
9/7/2016				<0.001		
12/7/2016	0.0006 (J)					
12/8/2016		<0.001		<0.001	<0.001	<0.001
3/28/2017			<0.001			
3/29/2017	0.0006 (J)	6E-05 (J)				
3/30/2017						9E-05 (J)
3/31/2017				9E-05 (J)	0.0002 (J)	
5/12/2017			<0.001			
6/15/2017			<0.001			
7/11/2017			<0.001			
7/12/2017	0.0006 (J)					
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)	7E-05 (J)		9E-05 (J)		
10/26/2017					0.0003 (J)	9E-05 (J)
2/27/2018			<0.001			
2/28/2018	<0.01	<0.001		<0.001		
3/1/2018					0.00032 (J)	
3/2/2018						<0.001
7/11/2018	<0.01			<0.001		
7/12/2018		<0.001			0.00031 (J)	<0.001
11/6/2018			<0.001			
11/7/2018	<0.001 (J)	<0.001		<0.001	<0.001 (J)	<0.001
8/27/2019			<0.001			
8/28/2019				6.9E-05 (J)		
8/29/2019	0.00084 (J)	6.4E-05 (J)			0.00025 (J)	7.8E-05 (J)
10/15/2019			7.3E-05 (J)			
10/17/2019	0.00062 (J)			<0.001	0.00025 (J)	
10/18/2019		<0.001				<0.001
3/2/2020			<0.001			
3/3/2020		7E-05 (J)				
3/4/2020	0.0023 (J)			<0.001	0.00021 (J)	6.8E-05 (J)
8/12/2020			<0.001		0.00018 (J)	
8/13/2020	0.0016 (J)			<0.001		<0.001
8/14/2020		<0.001				
9/22/2020	0.00055 (J)		<0.001	<0.001		
9/23/2020					0.00026 (J)	<0.001
9/24/2020		<0.001				
3/1/2021			<0.001			
3/2/2021	0.0014 (J)					
3/3/2021		<0.001		<0.001	0.00023 (J)	<0.001
9/10/2021	0.00052 (J)	<0.001	<0.001		0.00036 (J)	<0.001
9/13/2021				<0.001		
1/20/2022		<0.001		<0.001		
1/21/2022	<0.01				0.00028 (J)	
1/24/2022			<0.001			<0.001
9/13/2022				<0.001	0.00021 (J)	<0.001
9/15/2022	0.001 (J)					
9/16/2022		<0.001				
9/19/2022			<0.001			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:36 PM View: AP 234 Confidence Intervals

Plant McDonough Client: Southern Company Data: McDonough AP

	DGWC-20	DGWC-22	DGWC-4	DGWC-42	DGWC-47	DGWC-48
2/1/2023				0.00028 (J)		
2/3/2023			<0.001		0.00022 (J)	<0.001
2/6/2023		<0.001				
2/7/2023	0.0018 (J)					
9/11/2023	<0.01	<0.001				
9/12/2023					0.00019 (J)	
9/13/2023			<0.001	<0.001		<0.001
1/30/2024				<0.001		
1/31/2024		<0.001				
2/1/2024	<0.01		<0.001			
2/5/2024					<0.001	<0.001
Mean	0.003696	0.0007667	0.0009512	0.000781	0.0003585	0.0007703
Std. Dev.	0.00426	0.0004146	0.0002127	0.0003913	0.0002807	0.0004082
Upper Lim.	0.01	0.001	0.001	0.001	0.00032	0.001
Lower Lim.	0.0006	7E-05	7.3E-05	0.00028	0.0002	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/3/2024 4:36 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	<0.001		
12/6/2016	<0.001	<0.001	0.0006 (J)
3/28/2017	0.0002 (J)		0.0007 (J)
3/29/2017		0.0002 (J)	
7/11/2017	<0.001	0.0001 (J)	0.0007 (J)
10/24/2017		0.0003 (J)	0.0006 (J)
10/25/2017	<0.001		
2/27/2018	<0.001	0.00033 (J)	0.00038 (J)
7/11/2018			<0.005
11/6/2018	<0.001	<0.001 (J)	<0.005
8/27/2019	<0.001		0.00053 (J)
8/28/2019		0.00022 (J)	
10/16/2019	7.8E-05 (J)	0.00025 (J)	
10/17/2019			0.00076 (J)
3/2/2020	6.2E-05 (J)		
3/3/2020		0.00023 (J)	0.00044 (J)
8/11/2020			<0.005
8/12/2020	<0.001	0.00023 (J)	
9/22/2020	<0.001		0.00043 (J)
9/23/2020		0.0002 (J)	
3/2/2021	<0.001	0.00019 (J)	<0.005
9/10/2021	<0.001		0.0004 (J)
9/13/2021		0.00019 (J)	
1/24/2022	<0.001		
1/25/2022		0.00019 (J)	
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	
9/12/2023		<0.001	
9/13/2023	<0.001		
2/1/2024	<0.001	<0.001	
Mean	0.00086	0.0005068	0.00253
Std. Dev.	0.0003331	0.0003897	0.002276
Upper Lim.	0.001	0.001	0.005
Lower Lim.	0.0002	0.0002	0.00044

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

FIGURE J.

Appendix IV - Trend Test Summary - Significant Results

Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**DGWC-20**	**0.00159**	**68**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00005492**	**-91**	**-62**	**Yes**	**20**	**40**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-47**	**-0.0008056**	**-102**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.000425**	**-127**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-56**	**0.006465**	**29**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**B-93**	**-0.005325**	**-24**	**-23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003272**	**-118**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**65**	**62**	**Yes**	**20**	**75**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01854**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-20**	**0.08083**	**97**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03465**	**-137**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03854**	**-169**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01332**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4778**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**B-120D**	**-0.01103**	**-17**	**-15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-47**	**-0.005385**	**-133**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006076**	**-139**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Test Summary - All Results

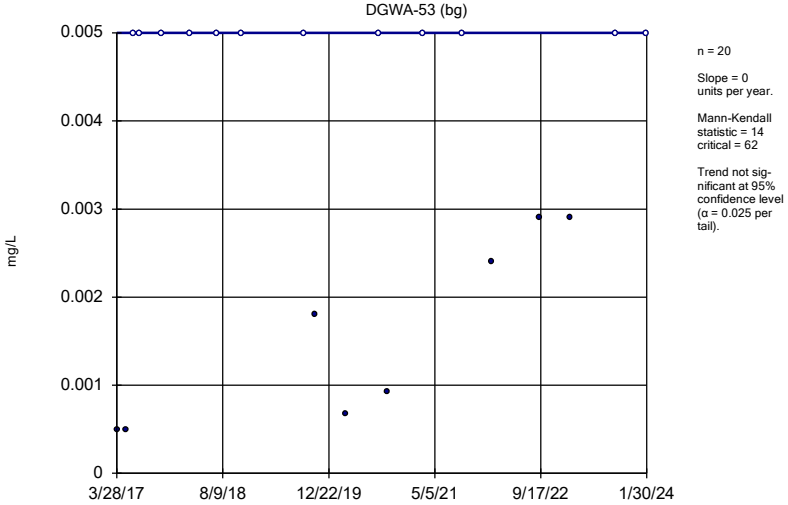
Plant McDonough Client: Southern Company Data: McDonough AP Printed 4/3/2024, 4:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	DGWA-53 (bg)	0	14	62	No	20	60	n/a	n/a	0.05	NP
Arsenic (mg/L)	DGWA-70A (bg)	0	-28	-62	No	20	85	n/a	n/a	0.05	NP
Arsenic (mg/L)	DGWA-71 (bg)	0	28	62	No	20	85	n/a	n/a	0.05	NP
Arsenic (mg/L)	**DGWC-20**	**0.00159**	**68**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	DGWC-9	-0.0006814	-17	-53	No	18	5.556	n/a	n/a	0.05	NP
Beryllium (mg/L)	B-92	-0.0009986	-13	-17	No	8	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	B-93	0	1	23	No	10	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	DGWA-53 (bg)	0	-15	-62	No	20	95	n/a	n/a	0.05	NP
Beryllium (mg/L)	**DGWA-70A (bg)**	**-0.00005492**	**-91**	**-62**	**Yes**	**20**	**40**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWA-71 (bg)	-0.000009793	-57	-62	No	20	25	n/a	n/a	0.05	NP
Beryllium (mg/L)	DGWC-10	0.0002633	18	58	No	19	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	**DGWC-47**	**-0.0008056**	**-102**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	**DGWC-48**	**-0.000425**	**-127**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Beryllium (mg/L)	DGWC-5	0.0003077	51	58	No	19	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	DGWC-9	-0.00002099	-6	-53	No	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	B-104D	-0.001583	-3	-20	No	9	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**B-56**	**0.006465**	**29**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	B-63	-0.002984	-12	-23	No	10	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	B-92	-0.001263	-1	-12	No	6	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**B-93**	**-0.005325**	**-24**	**-23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWA-53 (bg)**	**-0.003272**	**-118**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWA-70A (bg)	0	47	62	No	20	60	n/a	n/a	0.05	NP
Cobalt (mg/L)	**DGWA-71 (bg)**	**0**	**65**	**62**	**Yes**	**20**	**75**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-10**	**-0.01854**	**-107**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	DGWC-19	0.00006337	11	62	No	20	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**DGWC-20**	**0.08083**	**97**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-47**	**-0.03465**	**-137**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-48**	**-0.03854**	**-169**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-8**	**-0.01332**	**-133**	**-58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**DGWC-9**	**0.01916**	**101**	**53**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	B-104D	-0.354	-5	-20	No	9	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	B-122D	5.641	4	8	No	4	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	**DGWA-53 (bg)**	**-0.4778**	**-106**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Combined Radium 226 + 228 (pCi/L)	DGWA-70A (bg)	0.002769	0	62	No	20	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	DGWA-71 (bg)	-0.02077	-15	-62	No	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	**B-120D**	**-0.01103**	**-17**	**-15**	**Yes**	**7**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	DGWA-53 (bg)	-0.0001024	-35	-62	No	20	5	n/a	n/a	0.05	NP
Lithium (mg/L)	DGWA-70A (bg)	0	28	62	No	20	85	n/a	n/a	0.05	NP
Lithium (mg/L)	DGWA-71 (bg)	-0.00004107	-42	-62	No	20	20	n/a	n/a	0.05	NP
Lithium (mg/L)	**DGWC-47**	**-0.005385**	**-133**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DGWC-48**	**-0.006076**	**-139**	**-62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 62

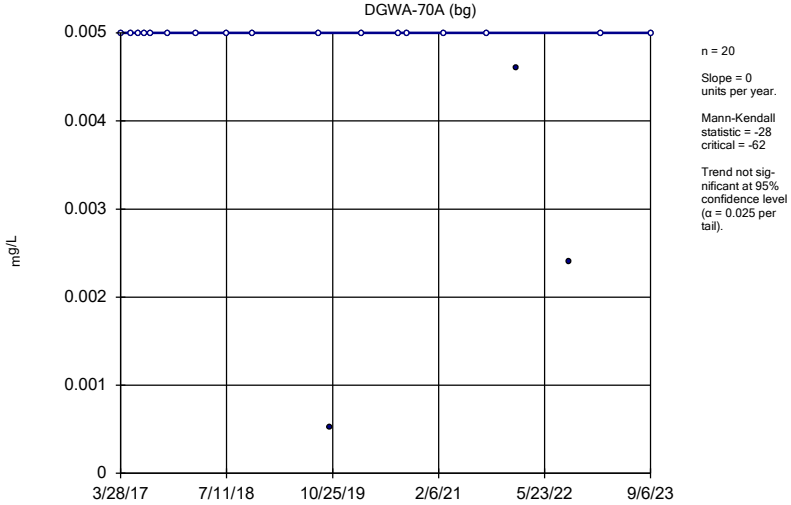
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -28
critical = -62

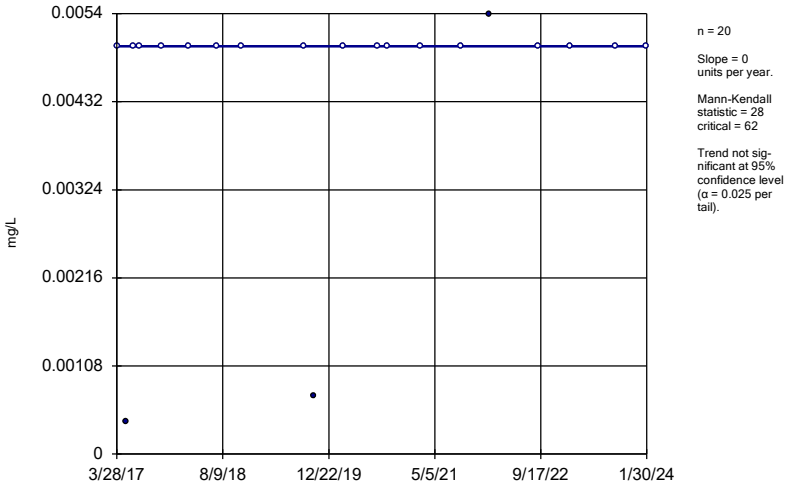
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 28
critical = 62

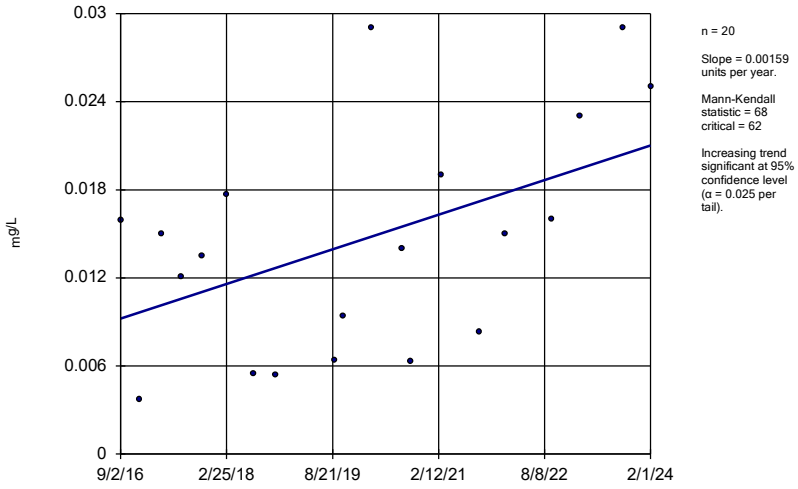
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 20

Slope = 0.00159 units per year.

Mann-Kendall statistic = 68
critical = 62

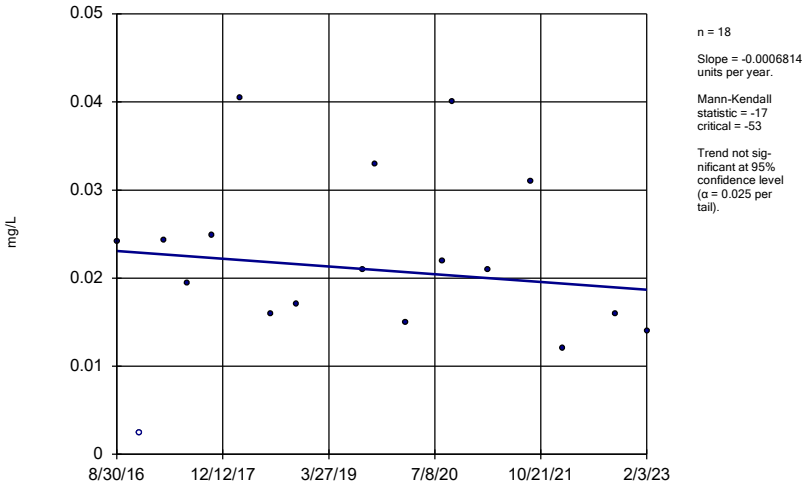
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.0006814 units per year.

Mann-Kendall statistic = -17
critical = -53

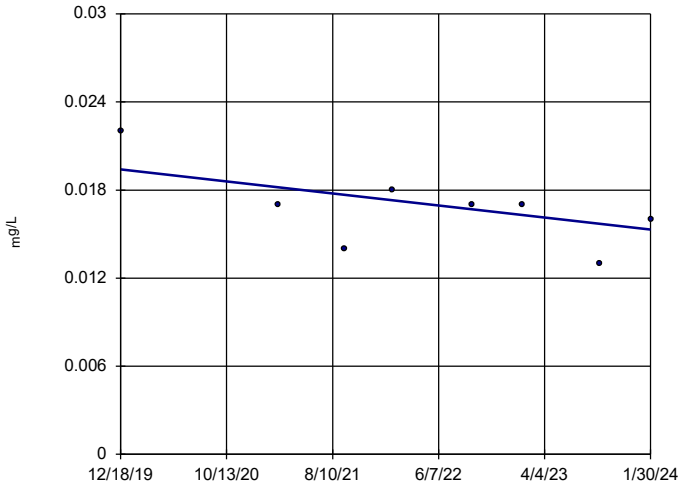
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-92



n = 8

Slope = -0.0009986 units per year.

Mann-Kendall statistic = -13
critical = -17

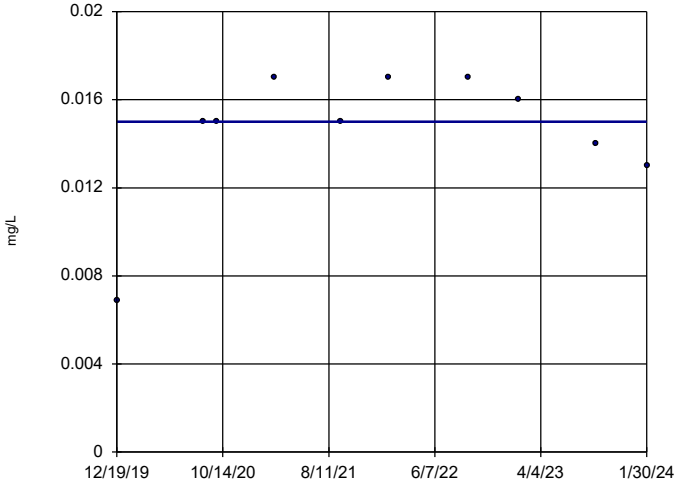
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-93



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 23

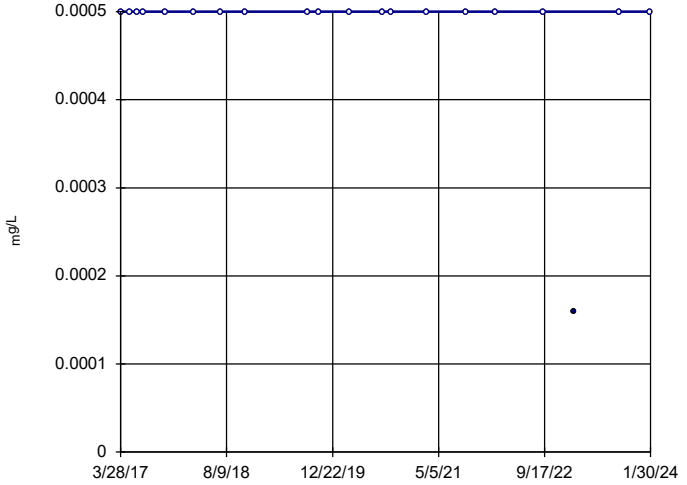
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

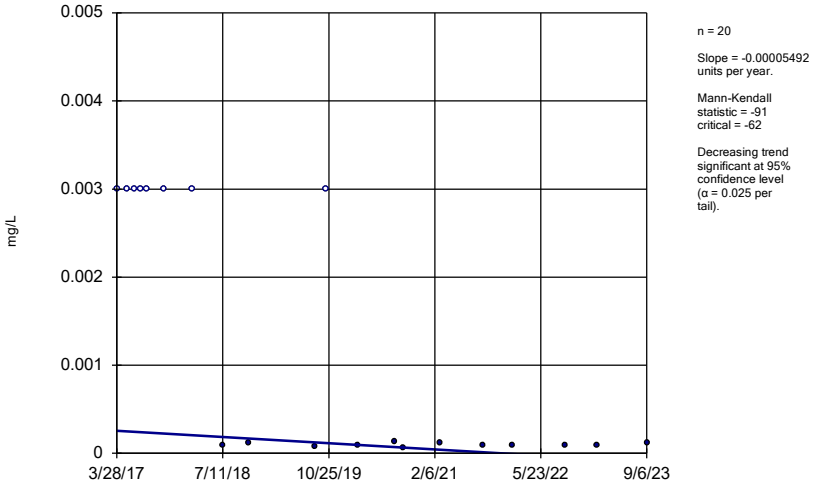
Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = -0.00005492 units per year.

Mann-Kendall statistic = -91
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests

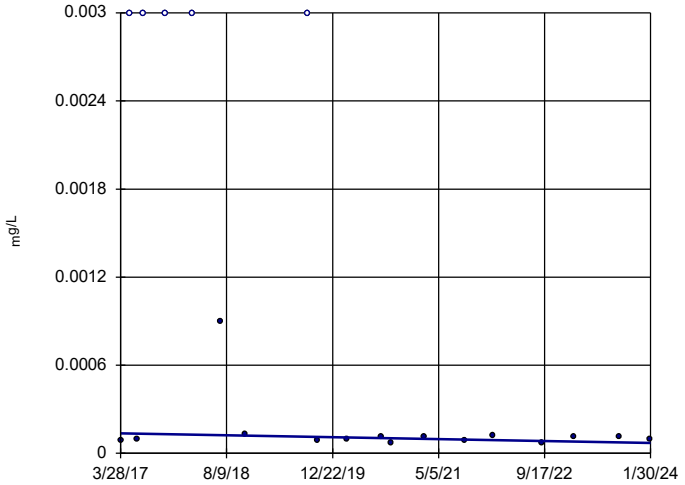
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = -0.000009793 units per year.

Mann-Kendall statistic = -57
critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

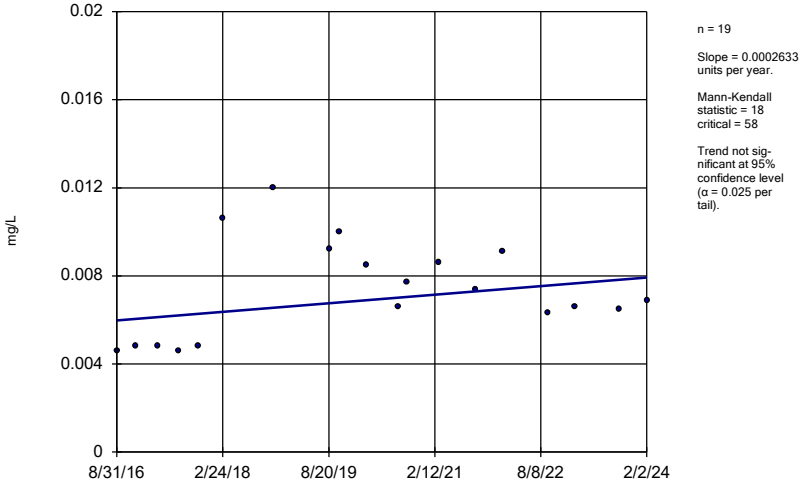
Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 19

Slope = 0.0002633 units per year.

Mann-Kendall statistic = 18
critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

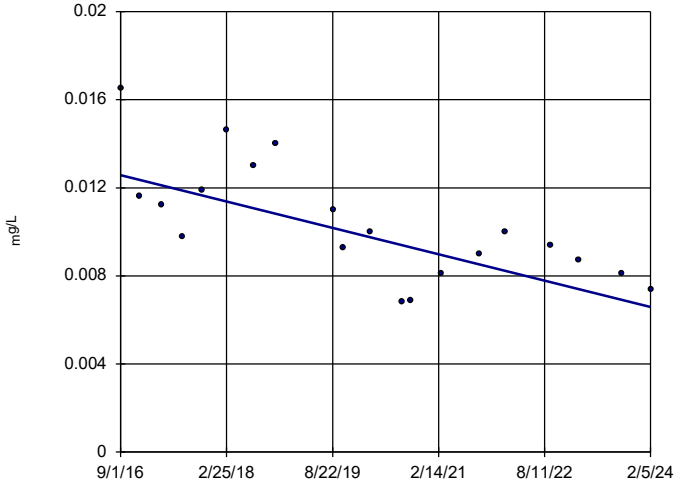
Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-47



n = 20

Slope = -0.0008056 units per year.

Mann-Kendall statistic = -102
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

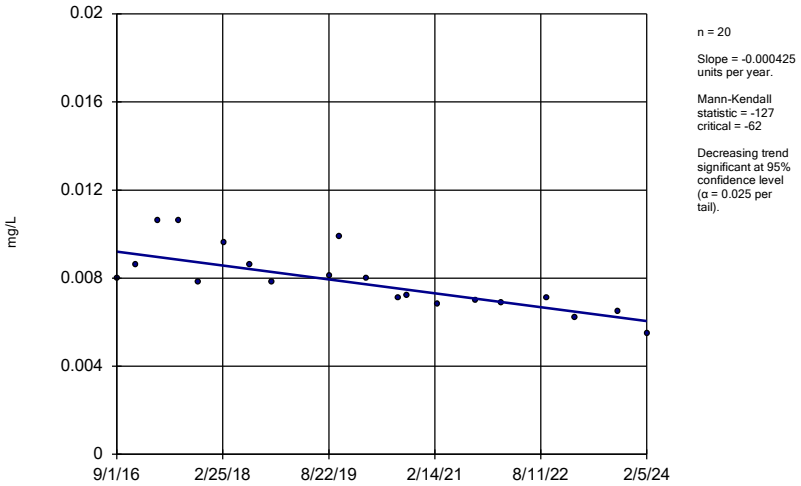
Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 20

Slope = -0.000425 units per year.

Mann-Kendall statistic = -127
critical = -62

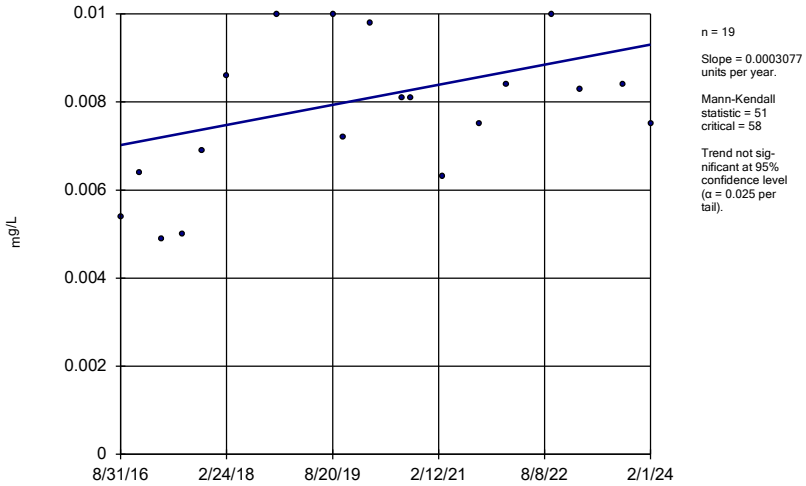
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-5



n = 19

Slope = 0.0003077 units per year.

Mann-Kendall statistic = 51
critical = 58

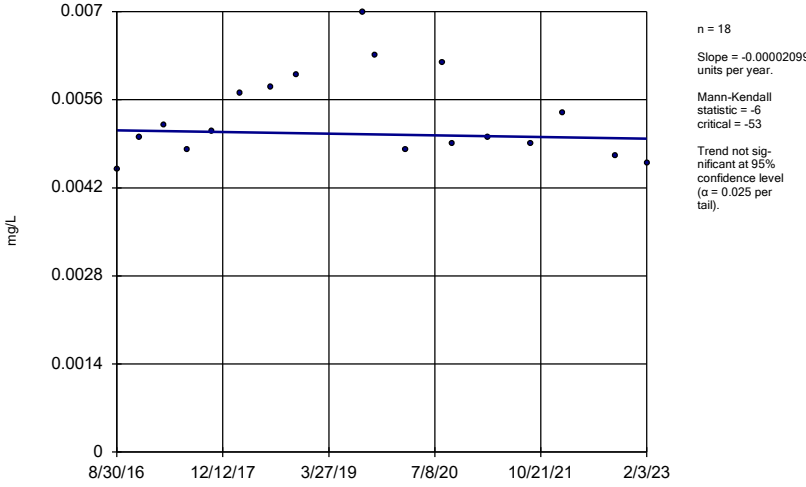
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-9



n = 18

Slope = -0.00002099 units per year.

Mann-Kendall statistic = -6
critical = -53

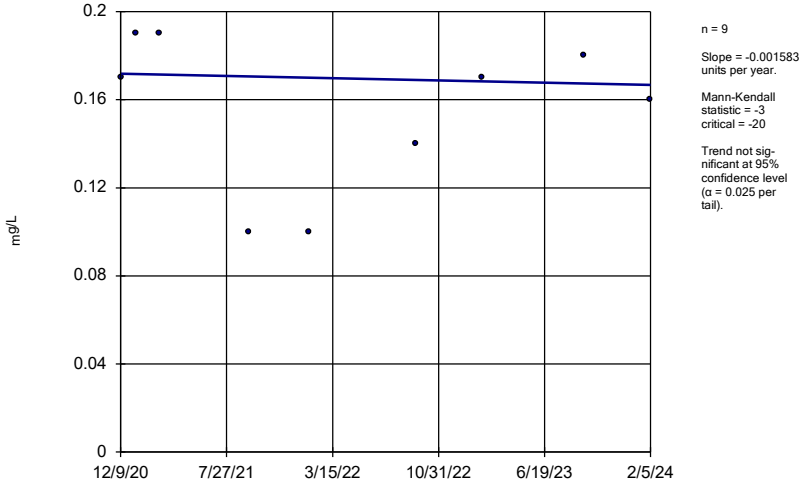
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-104D



n = 9

Slope = -0.001583 units per year.

Mann-Kendall statistic = -3
critical = -20

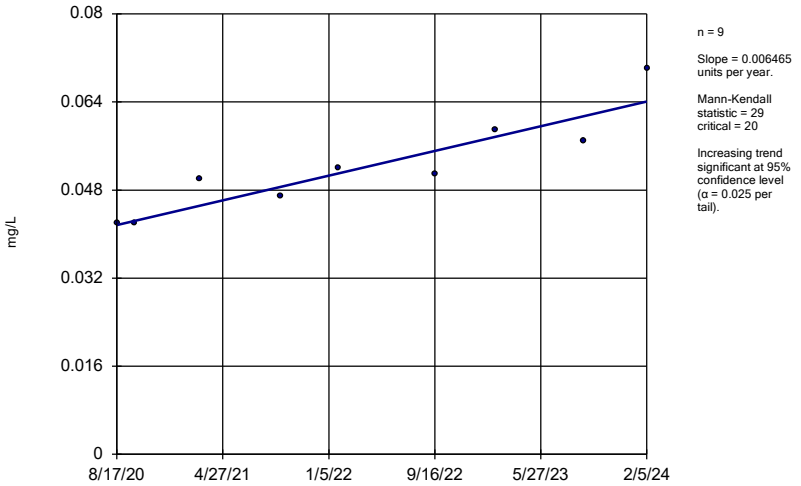
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-56



n = 9

Slope = 0.006465 units per year.

Mann-Kendall statistic = 29
critical = 20

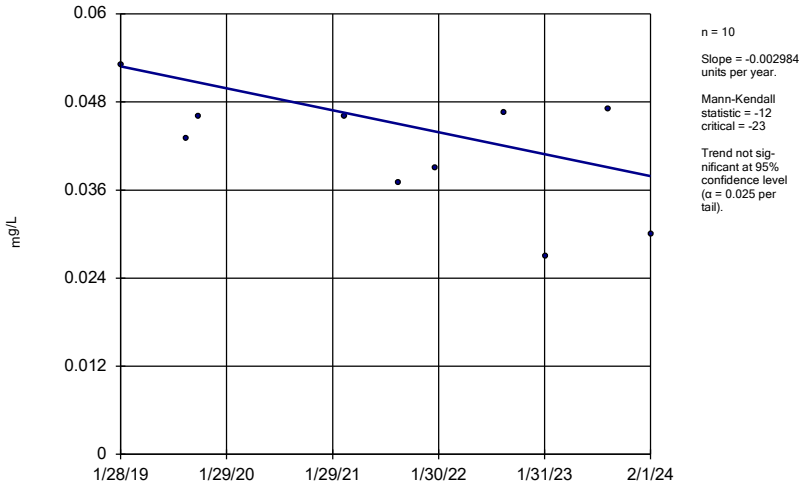
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-63



n = 10

Slope = -0.002984 units per year.

Mann-Kendall statistic = -12
critical = -23

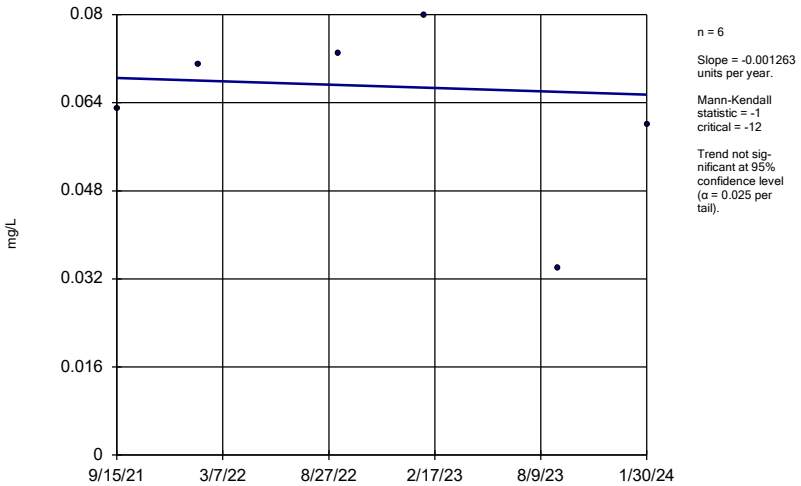
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-92



n = 6

Slope = -0.001263 units per year.

Mann-Kendall statistic = -1
critical = -12

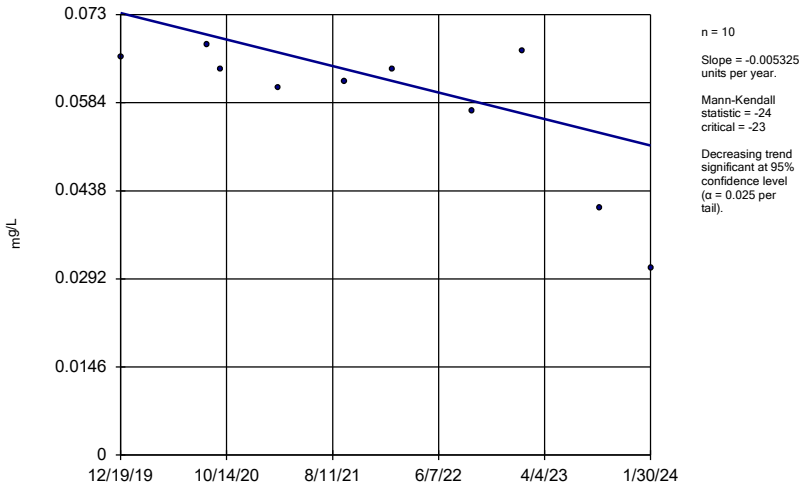
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-93



n = 10

Slope = -0.005325 units per year.

Mann-Kendall statistic = -24
critical = -23

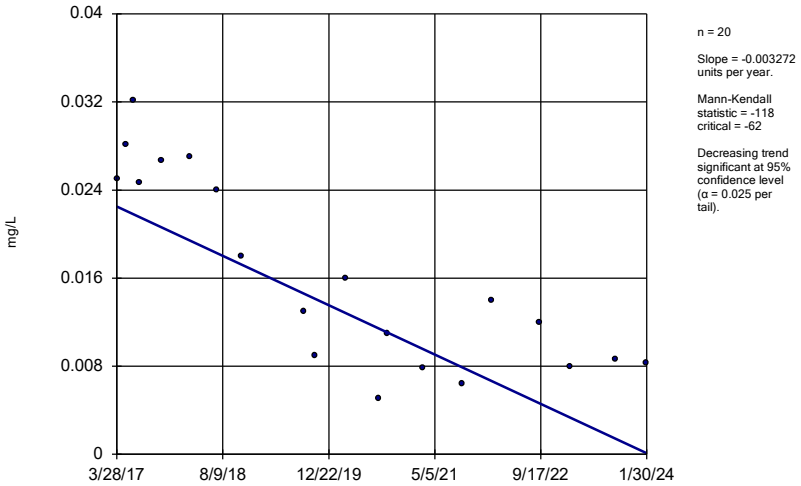
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.003272 units per year.

Mann-Kendall statistic = -118
critical = -62

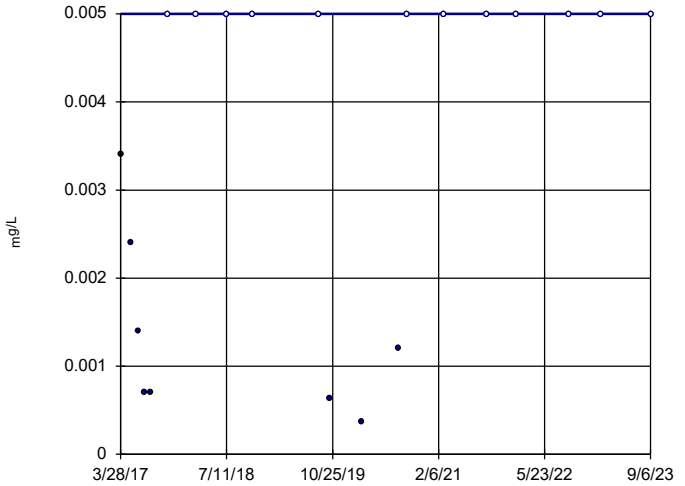
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 47
critical = 62

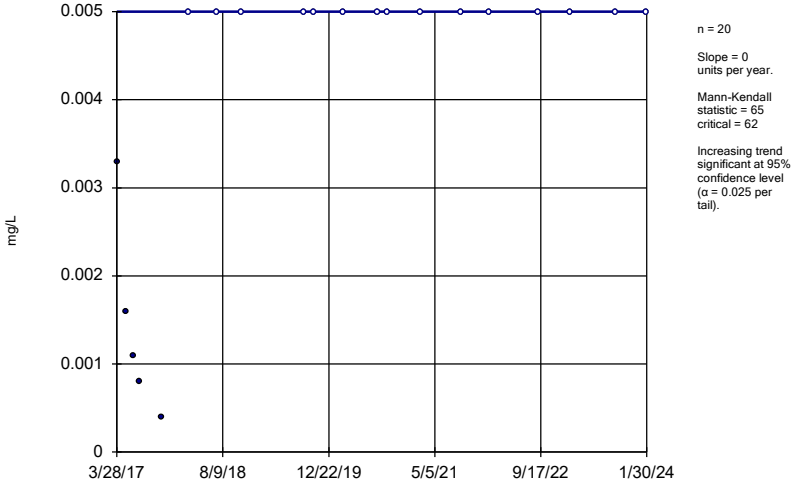
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 65
critical = 62

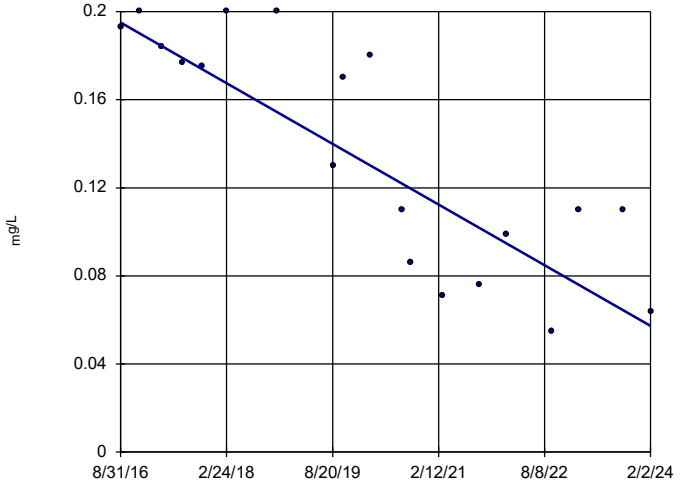
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-10



n = 19

Slope = -0.01854 units per year.

Mann-Kendall statistic = -107
critical = -58

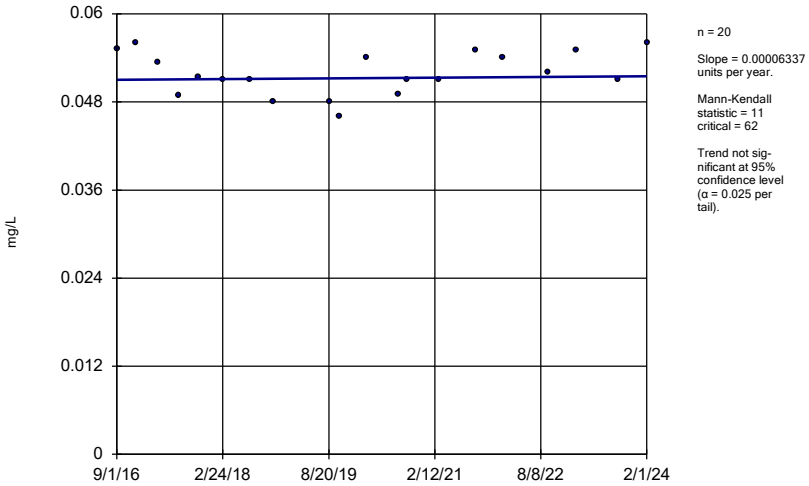
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-19



n = 20

Slope = 0.00006337 units per year.

Mann-Kendall statistic = 11
critical = 62

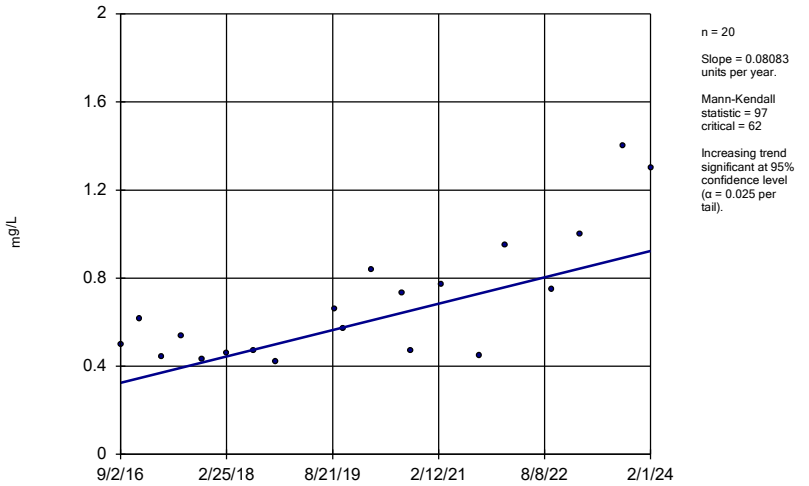
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-20



n = 20

Slope = 0.08083 units per year.

Mann-Kendall statistic = 97
critical = 62

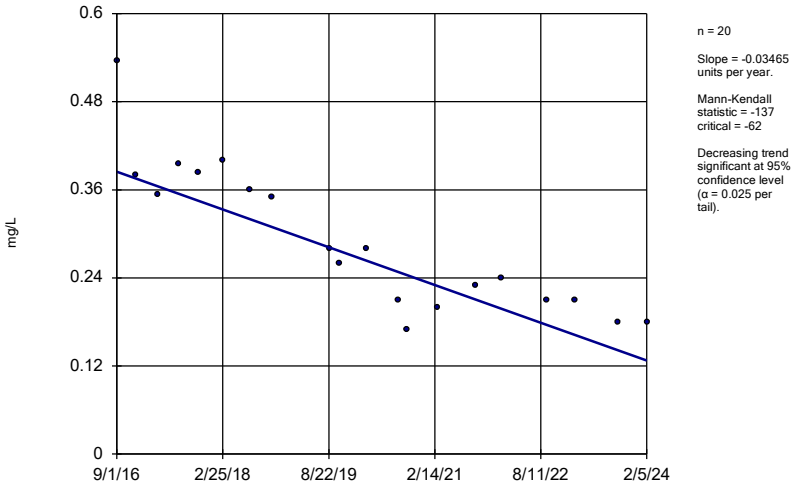
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-47



n = 20

Slope = -0.03465 units per year.

Mann-Kendall statistic = -137
critical = -62

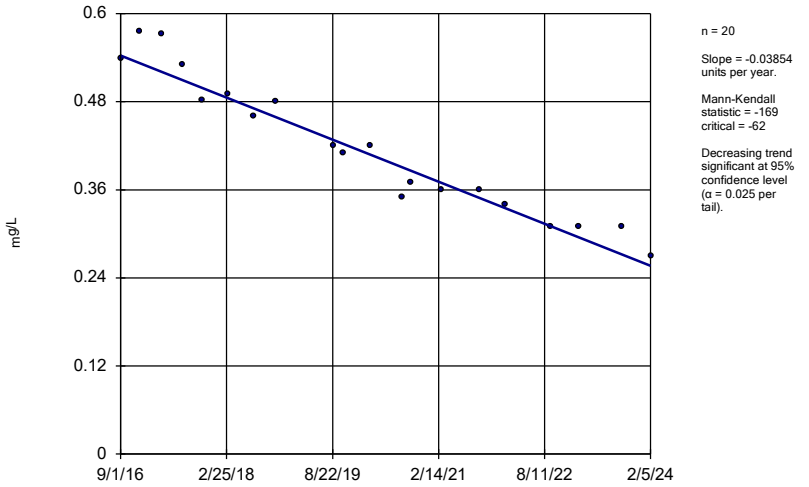
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-48



n = 20

Slope = -0.03854 units per year.

Mann-Kendall statistic = -169
critical = -62

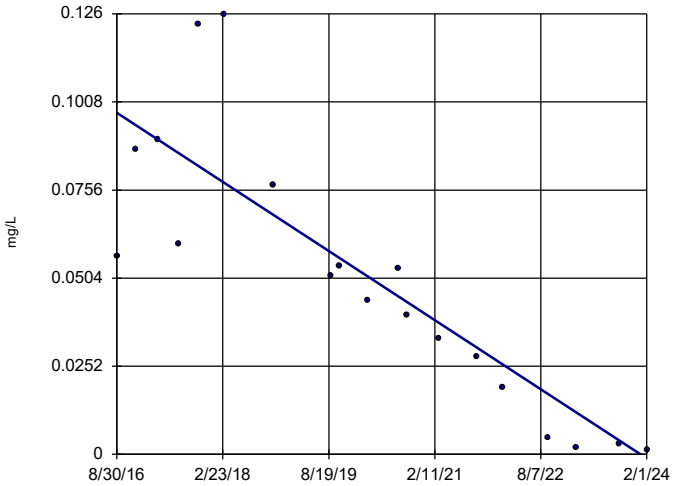
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-8



n = 19

Slope = -0.01332 units per year.

Mann-Kendall statistic = -133
critical = -58

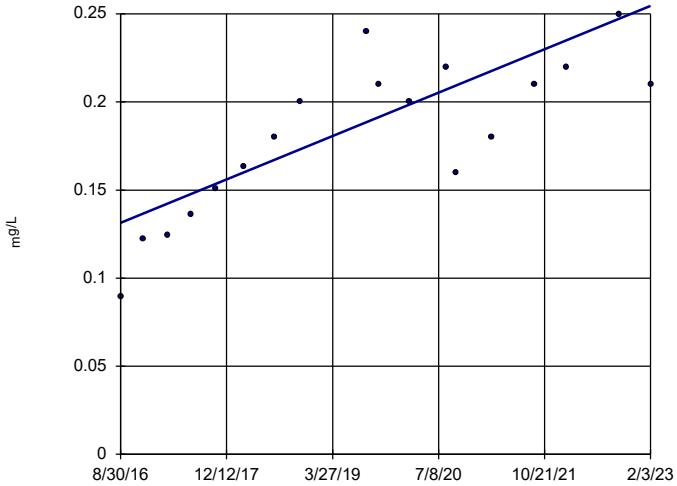
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-9



n = 18

Slope = 0.01916 units per year.

Mann-Kendall statistic = 101
critical = 53

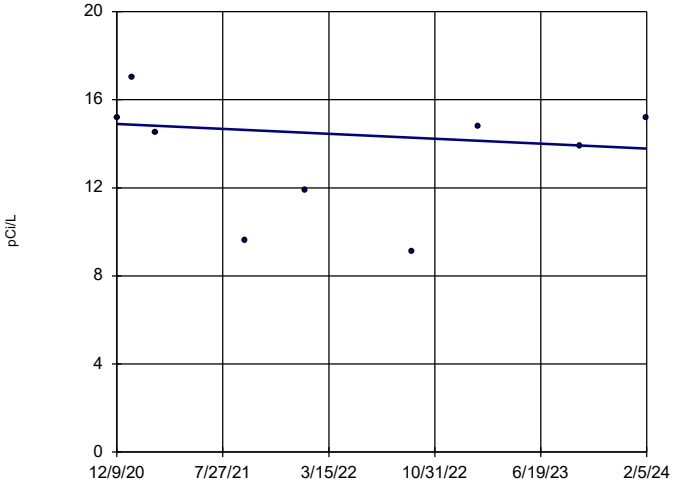
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-104D



n = 9

Slope = -0.354 units per year.

Mann-Kendall statistic = -5
critical = -20

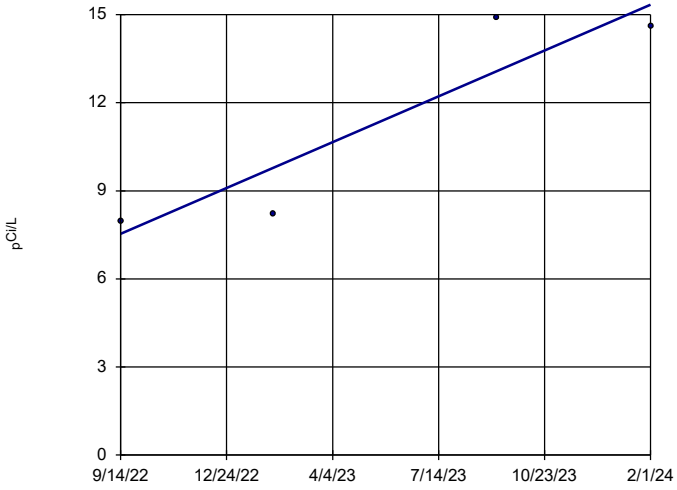
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:43 PM View: AP 234 Appendix IV Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-122D



n = 4

Slope = 5.641 units per year.

Mann-Kendall statistic = 4
critical = 8

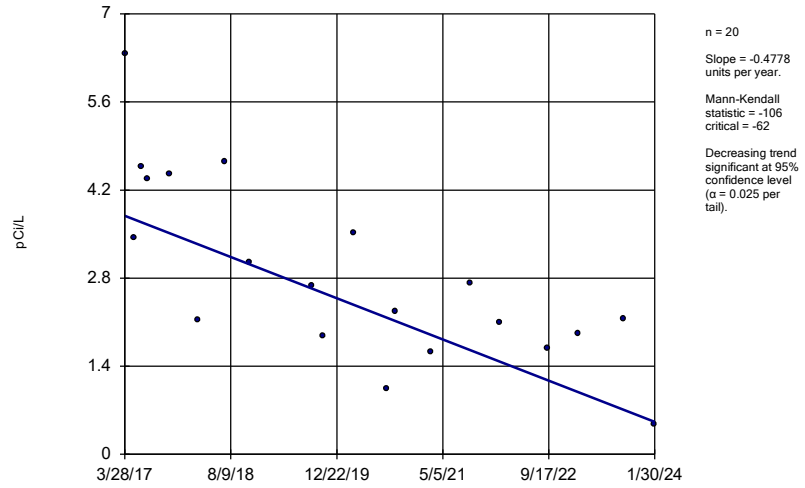
Trend not sig-nificant at 95% confidence level (α = 0.025 per tail).
With n = 4, no data set will result in a significant Mann-Kendall statistic.

Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Tre
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.4778 units per year.

Mann-Kendall statistic = -106
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

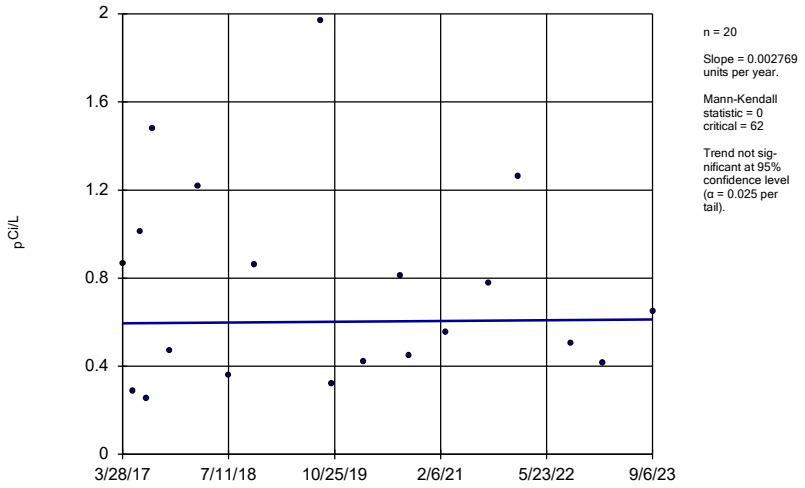
Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Tre

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0.002769 units per year.

Mann-Kendall statistic = 0
critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

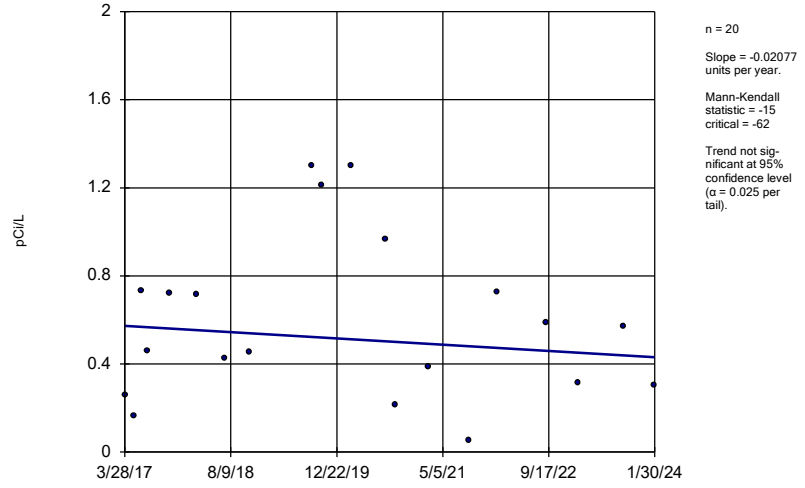
Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Tre

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = -0.02077 units per year.

Mann-Kendall statistic = -15
critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

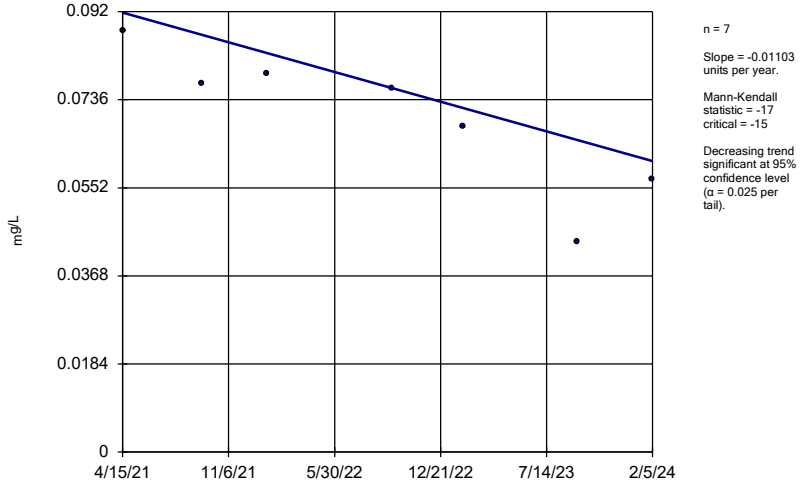
Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Tre

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

B-120D



n = 7

Slope = -0.01103 units per year.

Mann-Kendall statistic = -17
critical = -15

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

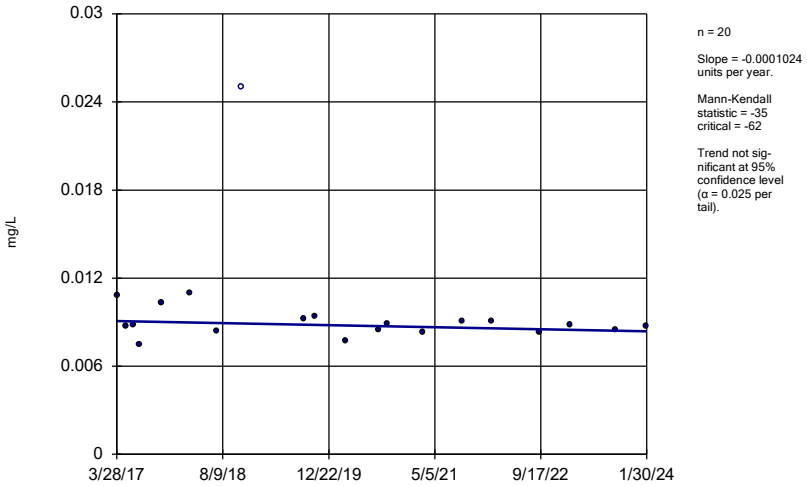
Constituent: Lithium Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-53 (bg)



n = 20

Slope = -0.0001024 units per year.

Mann-Kendall statistic = -35
critical = -62

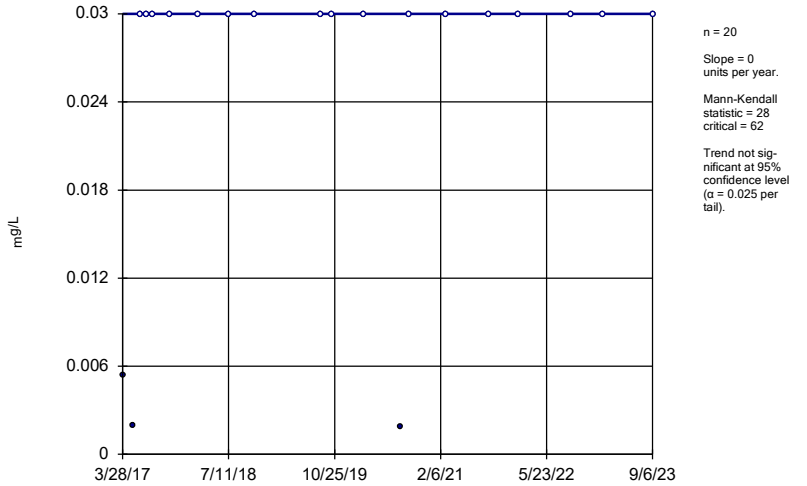
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-70A (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 28
critical = 62

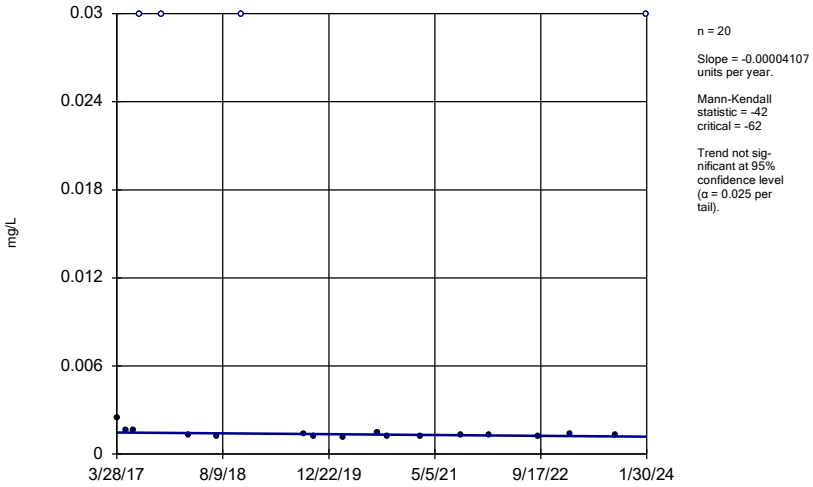
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGWA-71 (bg)



n = 20

Slope = -0.00004107 units per year.

Mann-Kendall statistic = -42
critical = -62

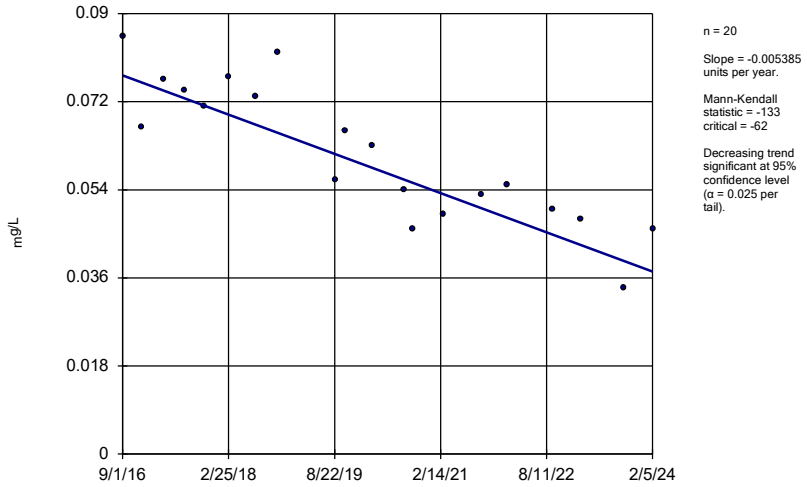
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

DGWC-47



n = 20

Slope = -0.005385 units per year.

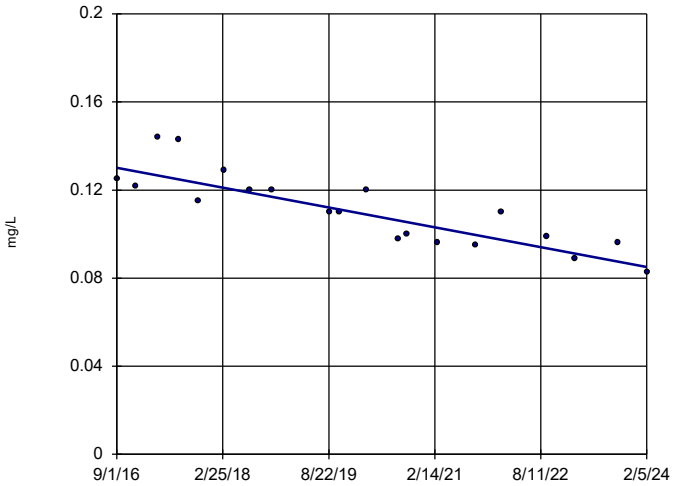
Mann-Kendall statistic = -133
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Trend Tests
Plant McDonough Client: Southern Company Data: McDonough AP

Sen's Slope Estimator

DGWC-48



n = 20

Slope = -0.006076 units per year.

Mann-Kendall statistic = -139
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/3/2024 4:44 PM View: AP 234 Appendix IV Trend Tests

Plant McDonough Client: Southern Company Data: McDonough AP

APPENDIX F

Alternate Source Demonstration for Combined Radium at B-111D and B-122D

REPORT

Alternate Source Demonstration for Combined Radium at B-111D and B-122D

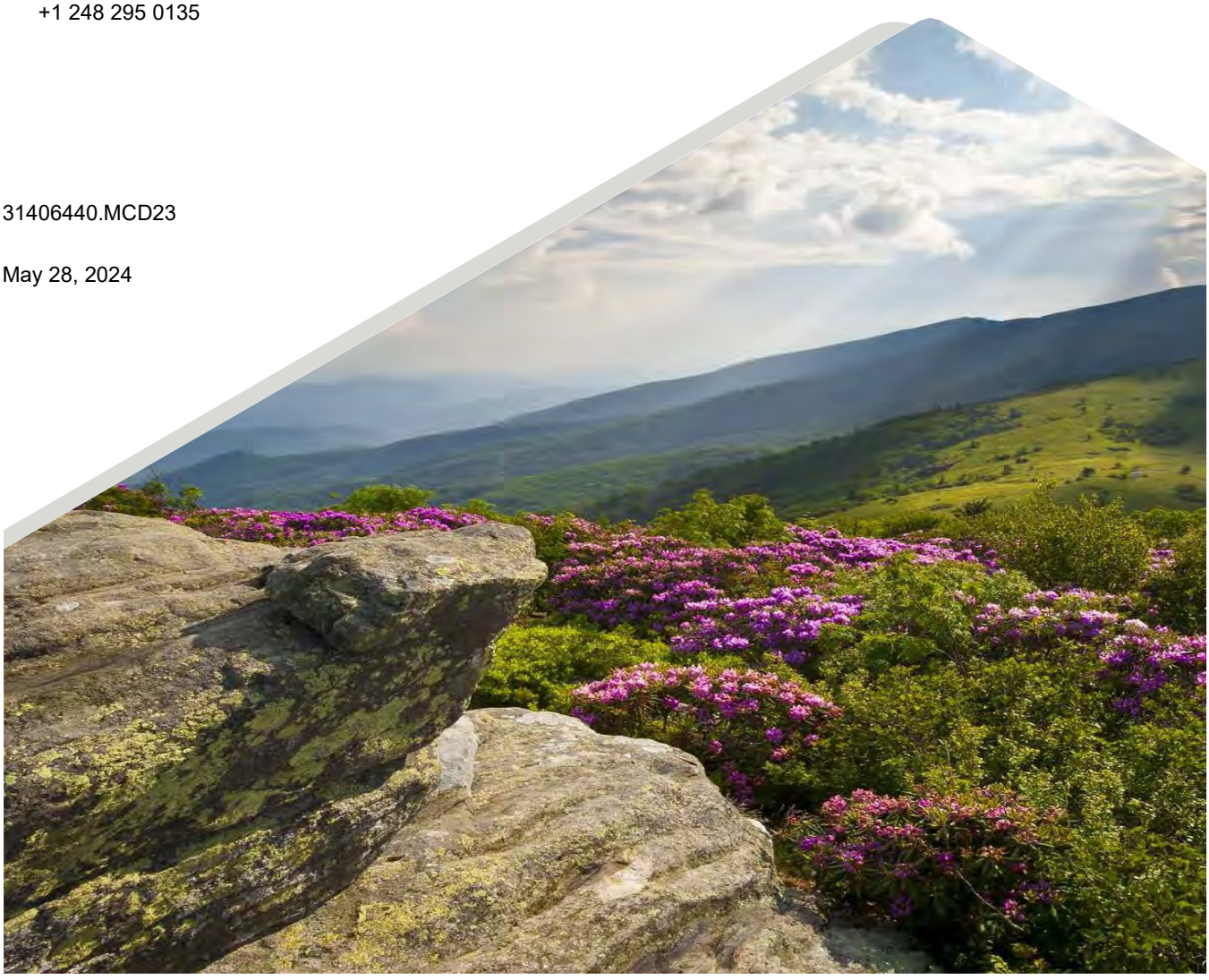
Plant McDonough-Atkinson Ash Pond 2 and 3/4

Submitted to:

Georgia Power Company
241 Ralph McGill Boulevard, Atlanta, Georgia 30341

Submitted by:

WSP USA Inc.
5170 Peachtree Road, Suite 300 Building 100 Atlanta, Georgia 30341
+1 248 295 0135



31406440.MCD23

May 28, 2024

Table of Contents

1.0 INTRODUCTION 5

2.0 HYDROGEOLOGIAL AND GEOLOGICAL SETTING 6

3.0 CHARACTERIZATION OF AQUIFER MATERIALS 7

3.1 Sample Collection 7

3.2 Petrographic Analysis 8

3.3 Scanning Electron Microscopy – SEM 8

3.4 Whole-Rock Geochemistry 8

3.5 Radiochemical Analysis of Core Sampling B-111D 9

4.0 ANALYTICAL RESULTS 9

4.1 Petrographic Analysis 9

4.2 Scanning Electron Microscopy - SEM 9

4.3 Whole-Rock Geochemistry 10

5.0 SOURCE EVALUATION 10

6.0 ASD SUMMARY 14

7.0 REFRENCES 15

Figures

Figure 1: Trends in Combined Radium Concentrations at Select Wells

Figure 2: Geologic Map of Plant McDonough-Atkinson

Figure 3: Site Potentiometric Map – September 5, 2023

Figure 4: Naturally Occurring Radionuclides in Community Water Systems in Georgia

Appendices

Appendix A: Rock Core Photographs, Photomicrographs and SEM Test Results

Appendix B: Radiochemical Analysis Results

Appendix C: 2024 Groundwater Sampling Results for Relevant AP-2 and 3/4 Wells

Certification

This *Alternate Source Demonstration for Combined Radium at B-111D and B-122D*, Georgia Power Company Plant McDonough-Atkinson, Ash Pond 2 and 3/4, has been prepared in compliance with applicable United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and Georgia Environmental Protection Division Rule 391-3-4-.10(6)(a-c) under the direction of a licensed professional engineer with 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
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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; published in 80 FR 21302-21501, April 17, 2015) (CCR Rule or the Rule), this Alternate Source Demonstration (ASD) for Plant McDonough Ash Pond 2 and 3/4 (AP-2 and 3/4) has been prepared to document that a natural source has caused Statistically Significant Levels (SSLs) of combined radium (radium 226 + radium 228) identified in wells B-111D and B-122D at Georgia Power Company's Plant McDonough AP-2 and 3/4 (Site) during assessment monitoring. 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.

A prior ASD for combined radium in Site monitoring wells DGWA-53, B-104D, B-105D, B-109D, B-111D, B-115D, and B-122D was submitted to Georgia Environmental Protection Division (GA EPD) on May 24, 2023. That 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. The prior documents provide information supporting the natural occurrence of radionuclides in groundwater at the Site through analysis of rock and soil samples from the Site. At the time of the ASD submittal, only B-104D and B-109D exhibited statistically significant levels (SSLs) of combined radium under the assessment monitoring program. As such, GA EPD approved the ASD, but for only the wells then relevant: B-104D and B-109D.

Following the second semi-annual monitoring event in 2023, an SSL of combined radium was identified for monitoring well B-111D. A probable SSL was identified following the first semi-annual monitoring event in 2024 for B-122D, though those results have not yet been reported. Analytical results reported here for monitoring wells B-111D and B-122D affirm the natural occurrence and mobility of radium in the aquifer media at AP-2 and 3/4 and support the prior demonstration of an alternate source for radium in groundwater at monitoring wells B-111D and B-122D. Combined radium at B-111D and B-122D has ranged from 1.33 to 14.9 pCi/L, while background well DGWA-53 has generally had a lower concentration (Table 1; Figure 1).

Table 1: Combined Radium (226 + 228) Concentrations at Select Locations at AP-2 and 3/4

Well ID	Range of Concentrations of Radium 226 + 228 (pCi/L)
DGWA-53 (background)	0.478 U - 6.36
B-111D (downgradient)	1.33 – 12.3
B-122D (downgradient)	7.94 – 14.9
B-104D (downgradient) [1]	9.12 – 17.0
B-109D (downgradient) [1]	9.45 – 17.7

Note:
[1] The range of combined radium concentrations at wells B-104D and B-109D are provided for reference. An ASD for the occurrence of radium at these wells has previously been approved by GA EPD.

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 ASD provides the

following lines of evidence as supported by previous Site studies. These are substantially the same lines of evidence accepted by EPD when approving the previously submitted ASD for wells B-104D and B-109D.

- Combined radium SSLs at the Site have been measured only in isolated downgradient bedrock wells and have not been observed in any of the shallow monitoring wells, including those shallow wells adjacent to the deep delineation wells.
- The wells with elevated radium concentrations have low concentrations of CCR indicator parameters.
- 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.
- Scanning electron microscopy (SEM) analysis of the bedrock samples identified the minerals allanite, thorite and monazite in the granitic gneiss. Energy dispersive spectroscopy (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 analysis detected the radiogenic elements uranium, thorium, and potassium in all of the rock samples collected from the Long Island Creek Gneiss, button schist, and metagraywacke.
- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

This information has been prepared to document that the SSL and MCL exceedance noted at well B-111D and B-122D are the result of natural occurrences of radionuclides in the subsurface and not the CCR Unit.

2.0 HYDROGEOLOGIAL AND GEOLOGICAL SETTING

A regional, unconfined surficial aquifer system is present at the Site, existing within the overburden and weathered and fractured upper bedrock (i.e., approximately the first 30 feet), depending on topographic location. Recharge primarily occurs through precipitation and subsequent infiltration. Generally, groundwater flow occurs through intergranular pore spaces in the overburden and is controlled by topography and top of rock variations. However, a relatively higher transmissive zone is interpreted to occur at the base of the overburden, at the interface of weathered bedrock and competent bedrock and is believed to be the primary groundwater flow path.

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

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 2 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 September 5, 2023 were used to develop Figure 3. 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, consistent with historical observations.

3.0 CHARACTERIZATION OF AQUIFER MATERIALS

Radium exists in nature as one of four isotopes: Ra-223, Ra-224, Ra-226, and Ra-228. Most of these naturally occurring radionuclides are derived from radioactive isotopes of uranium and thorium (parent element), whose daughter products yield Ra-226 and Ra-228, 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, 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.

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 SEM analyses, and the remaining core ground to a powder for use in the whole-rock geochemical analyses. Photographs of the core samples that were collected for geochemical and petrographic analysis are presented in Appendix A.

In 2023, aquifer solids were retrieved from cores previously collected during monitoring well installation in December 2020 through April 2021. The aquifer materials were analyzed by Pace Analytical Services, LLC for radium parent elements uranium and thorium as well as radium using the methods described in Section 3.5.

3.2 Petrographic Analysis

Representative rock core samples were collected from B-53/DGWA-53, B-54, and B-57 (locations shown on Figure 2). 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 (µm). After reaching 35µm, 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 millimeters (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/thorium-bearing accessory minerals in uncoated, polished thin-sections were performed 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 with a 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% passing a 10-mesh screen. 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_3+HCl+HF+$HClO_4$ 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.

3.5 Radiochemical Analysis of Core Sampling B-111D

The aquifer materials from boring B-111D were analyzed by Pace Analytical Services, LLC for radium parent elements uranium and thorium as well as radium, using EPA Method 901.1: Gamma Emitting Radionuclides in Drinking Water. The analytical results are attached as Appendix B and are summarized in Table 3 in Section 5.4. The isotopes for the elements tested included:

- Uranium: U-235 and U-238
- Radium: Ra-226 and Ra-228
- Thorium: Th-232 and Th-234

4.0 ANALYTICAL RESULTS

4.1 Petrographic Analysis

Petrographic analysis conducted on Long Island Creek gneiss samples collected in B-53 and B-54 indicates 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.

Results of petrographic analysis of core B-57 indicates a singular button schist interlayered with metagraywacke that occur in fault contact southeast of the Long Island Creek Gneiss, occupying roughly one-half of the Site, with a 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
- IImenite
- Monazite
- Allanite

Energy dispersive spectroscopy (EDS) and backscattered electron (BSE) images of core 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. When an electron is ejected from

an inner shell, the electron “hole” is filled by electrons from higher-energy shells. The transformation of an electron 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 EVALUATION

Each of these lines of evidence is supported by geochemical characterization of aquifer solids, analysis of groundwater samples, and review of published data, as discussed in detail in the sections that follow:

1) Groundwater results for the shallow monitoring wells adjacent to the deep delineation wells have never reported a combined radium SSL, nor have any other shallow monitoring wells at the Site.

The combined radium concentrations in samples from shallow wells at the waste boundary located immediately adjacent to the delineation wells with elevated combined radium concentrations, range from below detection (0.348 U) to 2.49 pCi/L (Table 2). For comparison, combined radium concentrations in samples from the deeper bedrock wells B-111D and B-122D with SSLs and/or elevated combined radium concentrations range from 1.33 to 14.90 pCi/L (Table 1). The range in concentrations for wells with a prior approved ASD is 9.2 to 17.7 pCi/L. These shallow monitoring wells are screened in the uppermost unconfined aquifer, in closer proximity to the Units than the deeper delineation wells at which the elevated combined radium concentrations were noted. The groundwater elevations in the paired wells also reflect a downward vertical gradient, indicating groundwater movement from shallow/lower radium concentration zones to deeper groundwater zones where the radium SSLs have been observed. Furthermore, no detection monitoring network well at the Site has exhibited a combined radium SSL since the start of monitoring in 2016. Only the deep vertical delineation wells screened in bedrock, which were installed to delineate constituents other than combined radium, have shown SSLs for combined radium. These observations demonstrate that the combined radium SSLs in the B-111D and B-122D are isolated local conditions not due to migration in groundwater and are not a result of a release from the Units.

Table 2: Combined Radium Concentrations at Shallow Wells Adjacent to Deep Delineation Wells Where Elevated Combined Radium Concentrations are Identified

Deep Well	Nearest Shallow Detection Monitoring Well	Combined Radium Results (pCi/L) (range of concentration)
B-111D	DGWC-5	0.348 U - 2.49
B-122D	B-63	0.846 U – 2.14 U

Note: U = 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.

2) Combined radium concentrations in groundwater samples collected from the deep delineation well B-111D has decreased since well installation.

Groundwater with a long residence time in a rock matrix can develop relatively high concentrations of radionuclides due to decay of parent elements. With continued and adequate extraction of that water, radionuclide concentrations tend to decline as the formation of the daughter elements cannot 'keep up' with further groundwater extraction. This is generally consistent with the elevated measurements in the first samples collected immediately after well installation, followed by a decline in concentrations upon subsequent sampling events. While variable, the overall combined radium concentrations at B-111D have exhibited considerable decline in concentration since the initial sampling (Figure 1). At well B-111D, the combined radium concentration is below the GWPS for the most recent sampling event (2/05/2024) at 1.33 pCi/L. A limited dataset is available for delineation well B-122D (4 data points). While a decline in concentrations is observed between the August 2023 and January 2024 samples, an overall upward trend can be observed, though not significant. Should the aquifer conditions change or groundwater remain stagnant (not significantly disturbed by low flow sampling), radium concentrations may gradually increase again due to the ongoing natural uranium and thorium decay. Based on this key line of evidence, the combined radium observed in groundwater at the deep delineation wells is due to residence time in the rock matrix and not due to release from the Units.

3) The wells with elevated radium concentrations show no correlation with CCR indicator parameters.

The concentrations of typical CCR associated parameters, such as boron, are low (<0.49 mg/L) in deep wells B-111D and B-122D–less than one-third of the average concentration at shallower monitoring wells (WSP 2024). Historically, the deep delineation wells also have exhibited, on average, lower total dissolved solids (TDS) and sulfate concentrations, indicating no apparent CCR influence. Thus, the observed geochemical variability in TDS and sulfate concentrations in groundwater is related to water rock interactions in the heterogeneous subsurface lithological composition.

Since 2016, the observed groundwater pH in site-wide (shallow and deep) groundwater at Plant McDonough has ranged from 3.7 to 8.4 and the oxidation reduction potential (ORP) from -147 to +785 millivolts (mV), respectively. Under these conditions, boron and sulfate can often be used as conservative tracers of CCR influence, with very low to low partitioning coefficients of 0.0 L/kg (boron) and 0.19 to 1.3 L/kg (sulfate; dependent on sorbent content; Strenge and Peterson 1989). Generally, dissolved oxygen (DO) and ORP has been much lower in deep wells B-111D and B-122D than shallow wells. Therefore, if a groundwater pathway exists from the Units to these wells, high levels of boron and sulfate should be present, but are not. Groundwater sampling data for these wells are publicly available in the posted annual compliance reports (WSP 2024), while the February 2024 sampling data is included in Appendix C and will be submitted to GA EPD in July 2024 with the semi-annual groundwater monitoring report.

In contrast, radium in groundwater forms a charged divalent cation (Ra^{+2}) which has been shown to effectively adsorb on metal hydroxides at a groundwater pH range of 4 to 10 and also co-precipitate readily with minerals such as barite (Sajih et al. 2014). For a groundwater pH range of 5 to 9, the partitioning coefficient of radium is between 24.3 to 124.0 L/kg depending on sorbent content, indicating radium will not act conservatively in typical groundwater systems (Strenge and Peterson 1989). Therefore, it is geochemically improbable for radium to travel from a Unit to a deep delineation well without being accompanied by boron and sulfate. It should also be noted that elevated radium levels in the deep wells due to a release from the CCR Unit are unlikely to occur without

corresponding elevated levels in the adjacent shallow wells. As described above, no radium SSLs have been noted in overburden wells at the Site throughout its monitoring history.

4) Naturally occurring radium parent elements have been identified in bedrock samples collected from the screened intervals of the deep/bedrock delineation well B-111D.

Elevated groundwater concentrations of decay products such as radium typically are related to elevated concentrations of parent elements in associated aquifer solids. Total uranium and thorium concentrations in the deep bedrock aquifer samples taken from B-111D during the previously reported ASD were measured at 0.263 and 375 mg/kg, respectively (Table 3). The concentration of thorium in the sample was well above the average crustal rock concentrations of 10 mg/kg, and also above the average concentrations in granitic rocks (presence confirmed at the Site in line of evidence #5), which are naturally elevated in thorium (4.8 mg/kg) relative to many other rock types, as reported in a compilation of crustal rock concentrations by Smith and Huyck (1999). As such, the parent elements for radium are present at elevated levels in Site samples (and in the region, based on literature in line of evidence #6) relative to average concentrations for crustal and felsic rocks, demonstrating the presence of a natural source for radium at the Site.

Table 3. Occurrence of Total Uranium, Thorium and Radium in Core Sample B-111D[1]

Well ID[2]	Core Depth (ft)	Total Radium (mg/kg)	Total Uranium (mg/kg)	Total Thorium (mg/kg)
B-111D	82-82.5’	1.30×10^{-06}	0.263	375

[1] Concentrations converted from activities for comparison to average abundances by rock type
[2] Core sample collected from the screened interval at the identified location

5) 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.

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. Boring logs for wells B-111D indicate the presence of granitic gneiss while the boring log for B-122D indicate the presence of a muscovite biotite schist thus correlating the concentrations observed at B-111D and B-122D with the natural bedrock aquifer materials.

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 when located below the water table. Based on the rock mineralogy and whole rock geochemistry, the granitic gneiss bears naturally occurring, radioactive minerals in the bedrock upgradient of the Units 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) Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

As noted in Section 2.0, numerous studies have evaluated the presence of the radionuclides radium, uranium, and thorium in aquifer solids and groundwater in principal aquifers in the US and abroad (e.g., Chapman et al. 2013; Ranger 1995; Rosson et al. 1991; Szabo et al. 2012; Stackelberg et al. 2018; Vinson et al. 2013). Highlights of several of these papers are presented in the next paragraphs.

In Rosson et al. (1991), the authors reported evaluated radium and uranium levels in public water systems in Georgia. They concluded that the observed radium and uranium levels in public water systems were related to geologic conditions, with the highest levels occurring in groundwater from the Piedmont physiographic region. Albertson (2003) also found that out of 955 samples from public water supplies in the Piedmont, Blue Ridge, and Coastal Plains physiographic provinces, regionally, 476 (49.8%) samples had a combined radium level greater than 5 pCi/L, demonstrating widespread natural occurrence of radium in groundwater above the MCL[1] (Figure 4). Specifically, in Georgia, granite and gneiss aquifers in the Piedmont were identified to have the highest concentrations of naturally occurring radionuclides of any other aquifer types in the state (Coker and Olive 1989).

Radon, a gas byproduct of radium decay, is prevalent in the greater Atlanta area (Ranger 1995). Granites and faulted areas of high metamorphism produced the highest levels of radon in homes, with gneisses of granitic origin being of particular concern. This includes the Brevard Zone, the regional geologic zone in which Plant McDonough is located.

Szabo et al. (2012) concluded that radium concentrations in groundwater were controlled by the geochemical properties of the 15 major aquifer systems they studied, with highest radium levels occurring when radium adsorption was less effective. The Piedmont region was again identified as one where natural exceedances of the radium MCL occur.

In summary, there is ample supporting evidence for the presence of naturally occurring parent elements in regional aquifers in the Site area, the presence of elevated levels of radium in regional groundwater, and the presence of radon, a decay product of radium. Thus, there are multiple lines of evidence for naturally occurring

[1] Albertson (2003) presents a regional analysis of the Piedmont, without a specific focus on Cobb County. The Cobb County, Georgia, samples included in the study consisted of surface water only.

radium in the regional granitic gneiss, and this is also confirmed through testing of the site-specific rock formations. As such, combined radium represents a natural occurrence in the groundwater at Plant McDonough.

6.0 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 at monitoring wells B-111D and B-122D. 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:

- Combined radium SSLs at the Site have been measured only in isolated downgradient bedrock wells and have not been observed in any of the shallow monitoring wells, including those shallow wells adjacent to the deep delineation wells.
- The wells with elevated radium concentrations have low concentrations of CCR indicator parameters.
- Results of petrographic analyses from bedrock samples (including B-111D and upgradient location B-53/DGWA-53) indicate the 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. Similar mineral composition is expected at B-122D given the similar geology.
- 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 analyses detected the radiogenic elements uranium, thorium, and potassium in all of the rock samples collected from the Long Island Creek Gneiss, button schist and metagraywacke. Thus, detections of combined radium at the Site are heavily influenced by the natural bedrock aquifer materials.
- Radionuclides are known to be present in regional aquifer materials and regional groundwater, based on multiple sources/references.

This ASD has been prepared to document that the radium SSLs noted at wells B-111D and B-122D are the result of natural occurrences of radionuclides in the subsurface and not a release from the CCR Units.

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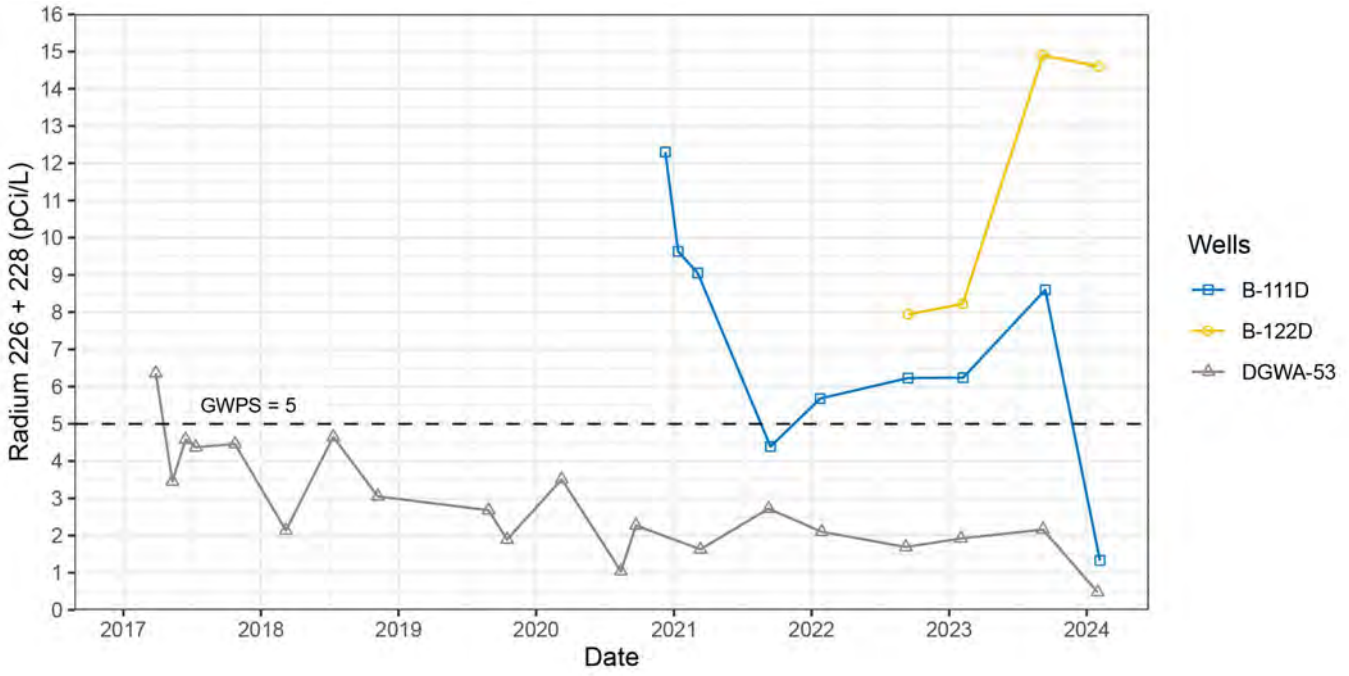
Figures



CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

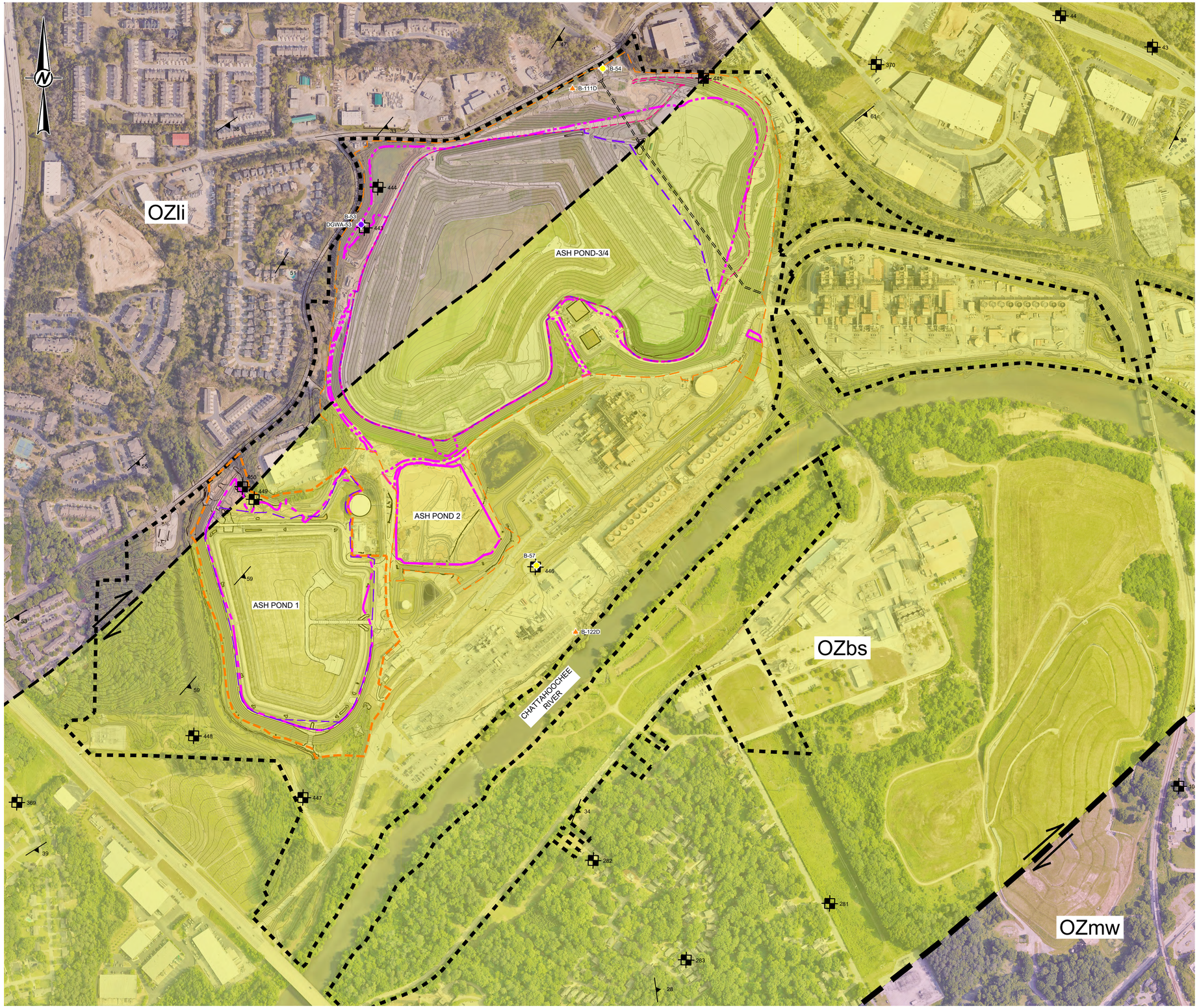
CONSULTANT

YYYY-MM-DD	2024-04-01
DESIGNED	DLP
PREPARED	PJN
REVIEWED	DLP
APPROVED	DLP

PROJECT
ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM AT B-111D AND B-122D
PLANT MCODONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
TRENDS IN COMBINED RADIUM CONCENTRATIONS AT SELECT WELLS

PROJECT NO.	CONTROL	REV.	FIGURE
31406440.02			1



LEGEND

- 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 - PHYLLONITE, 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
- REPRESENTATIVE ROCK CORE LOCATION/UPGRADIENT WELL
- SOIL BORING/REPRESENTATIVE ROCK CORES LOCATION
- ASSESSMENT WELL/ROCK CORE LOCATION

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, AND CONTOUR ELEVATIONS 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 IS AUGUST 31, 2022, ON AP2, 3/4 IS NOVEMBER 2, 2022. AERIAL IMAGERY DATE FOR AP2, 3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP1 AND SURROUNDING AREAS OF ASH PONDS 2, 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023. 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.
3. GEOLOGIC MAPPING PERFORMED BY PETROLLOGIC SOLUTIONS, OCTOBER 2016.

0 300 600
1" = 300' FEET

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH

Georgia Power

PROJECT
ALTERNATE SOURCE DEMONSTRATION FOR
COMBINED RADIUM AT B-111D & B-122D
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
GEOLOGIC MAP FOR PLANT MCDONOUGH-ATKINSON

CONSULTANT
wsp

YYYY-MM-DD	2024-05-07
DESIGNED	SEP
PREPARED	CRP
CHECKED	RNQ
REVIEWED / APPROVED	RNQ/GLH

PROJECT NO. 1777449 REV. SHEET 2

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

Path: \\atlanta.golder.gds\Cad\Southern Company\1777449 Plant McDonough Permitting\HAR\Production\ | File Name: GW-4 AP-2/3/4 GEOLOGIC MAP.dwg



LEGEND

- AP-1 MONITORING WELL
- AP-2,3/4 MONITORING WELL
- UPGRADIENT WELL
- ASSESSMENT MONITORING WELL
- PIEZOMETER
- DEWATERING WELL
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR (FT-NAVD88)
- 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 MEAUSREMENTS OBTAINED SEPTEMBER 5, 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 IMAGERY DATE FOR AP-3/4 PROVIDED BY GEORGIA POWER IS MAY 24, 2023, AND FOR AP-1, AP-2 AND SURROUNDING AREAS OF AP- 3/4, SOURCED BY PLEXEARTH, IS SEPTEMBER 28, 2023.

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.

0 600 1,200

1 IN= 600 FT

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

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

PROJECT
ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM AT B-111D & B-122D
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

TITLE
SITE POTENTIOMETRIC MAP – SEPTEMBER 5, 2023

CONSULTANT
wsp

YYYY-MM-DD	2024-02-08
PREPARED	YCS
DESIGN	SEB
CHECKED	DLP
REVIEWED/APPROVED	RNQ

PROJECT No.
31406440.MCD23

Rev.
0

FIGURE
3



FROM: ALBERTSON, P., 2003. NATURALLY OCCURRING RADIONUCLIDES IN GEORGIA WATER SUPPLIES: IMPLICATIONS FOR COMMUNITY WATER SYSTEMS

CLIENT
GEORGIA POWER COMPANY
PLANT MCDONOUGH-ATKINSON

CONSULTANT
wsp

YYYY-MM-DD	2024-04-01
DESIGNED	DLP
PREPARED	PJN
REVIEWED	DLP
APPROVED	DLP

PROJECT
ALTERNATE SOURCE DEMONSTRATION FOR COMBINED RADIUM AT B-111D AND B-122D
PLANT MCDONOUGH-ATKINSON ASH POND 2 AND 3/4

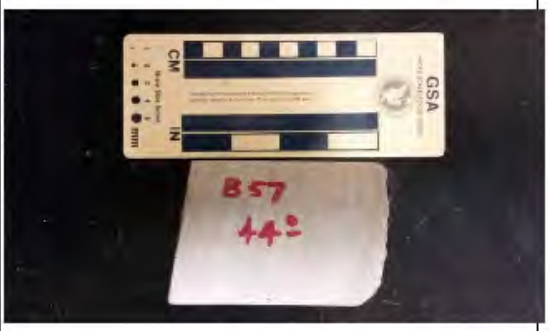
NATURALLY OCCURRING RADIONUCLIDES IN COMMUNITY WATER SYSTEMS IN GEORGIA.

PROJECT NO.	CONTROL	REV.	FIGURE
31406440.02			4

APPENDIX A

Rock Core Photographs, Photomicrographs, and SEM Test Results

Southern Company Service: Plant McDonough	
PHOTO 1 B-53 16.0 feet	
PHOTO 2 B-53 24.7 feet	

Southern Company Service: Plant McDonough	
PHOTO 3 B-54 32.5 feet	
PHOTO 4 B-57 44.0 feet	

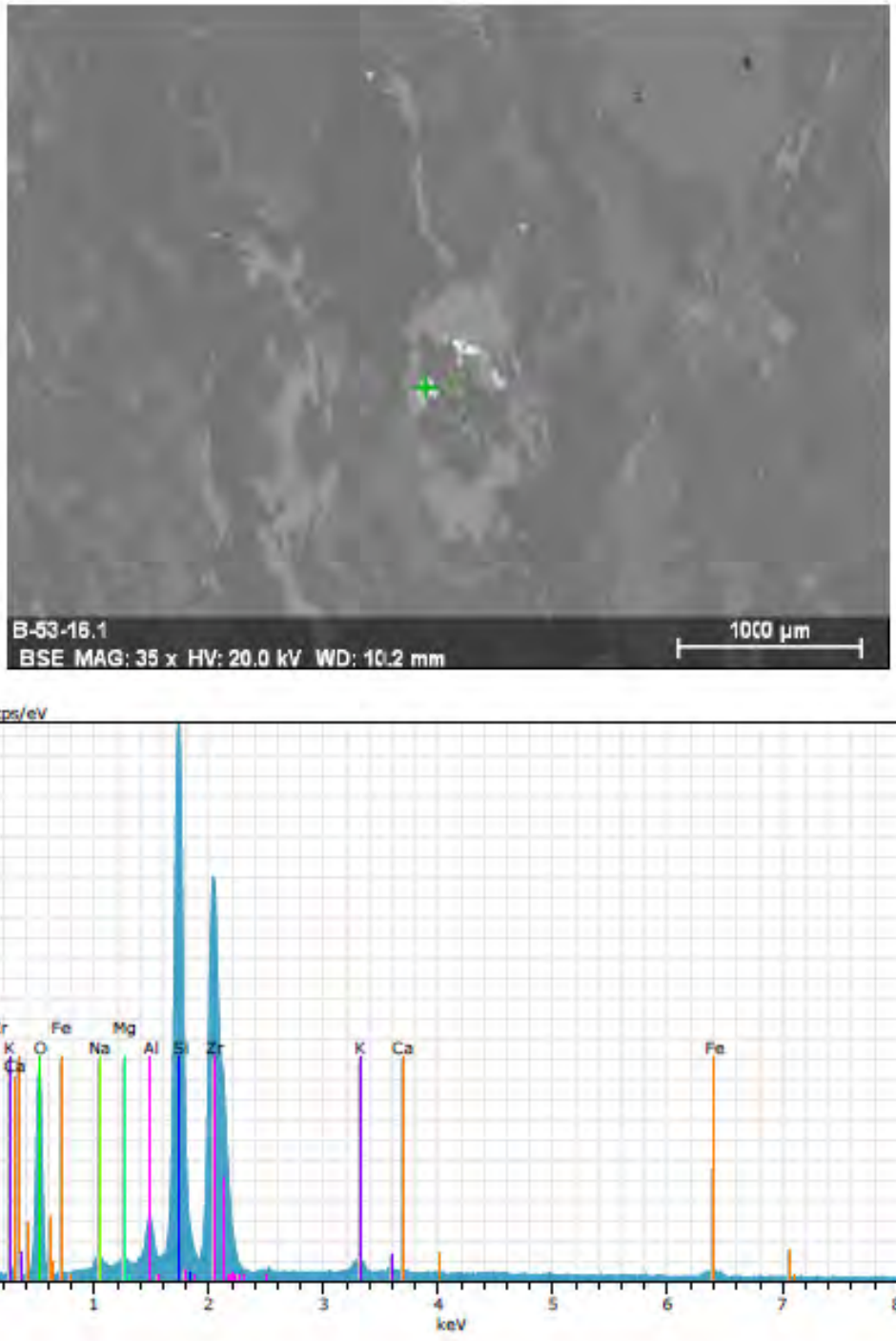
Southern Company Service: Plant McDonough	
PHOTO 5 B-57 50.5 feet	

PHOTOMICROGRAPH SAMPLE B-53
16.1 feet

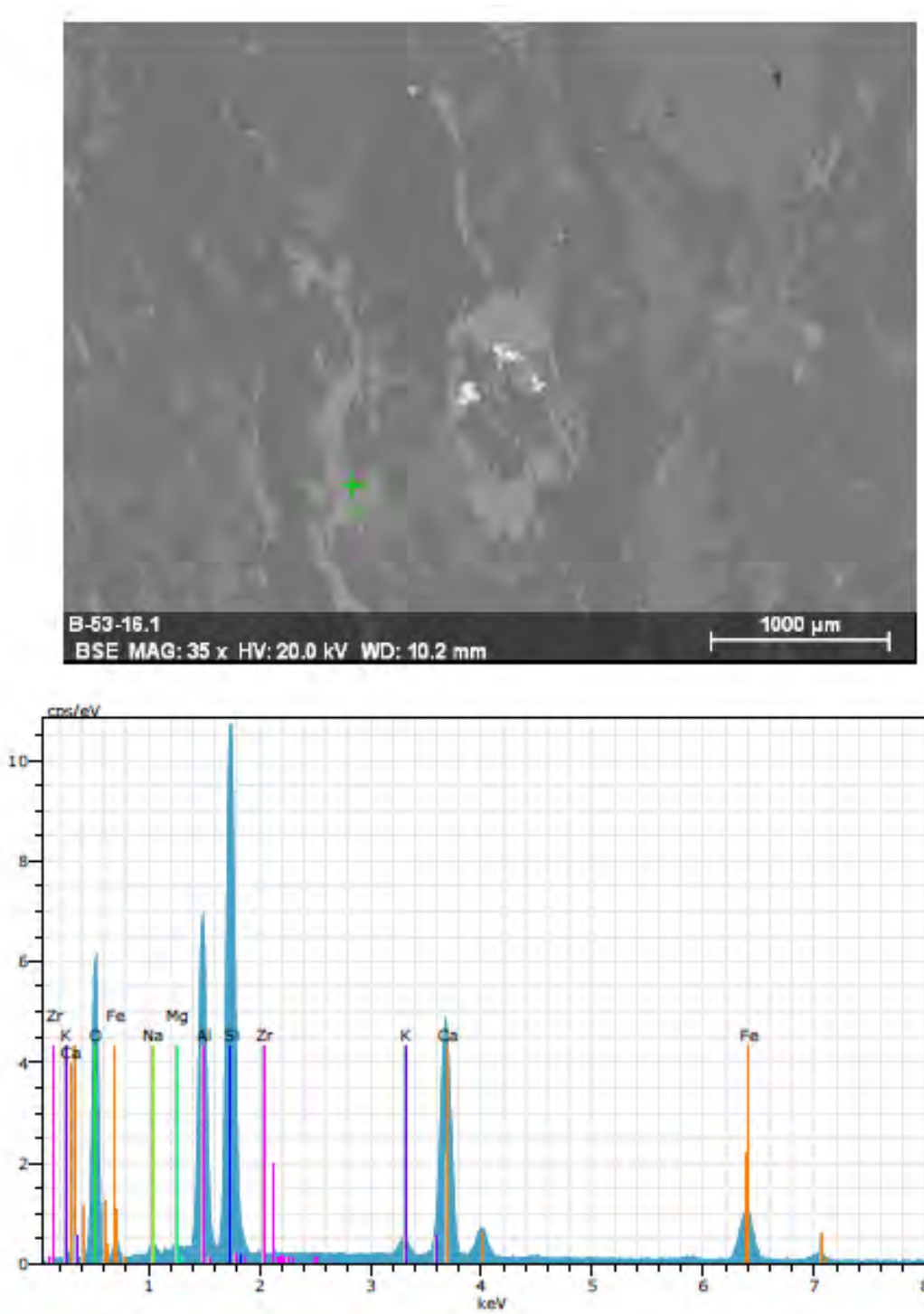


B-53 16.1': Representative photomicrograph of matrix of sample. Thin folia of biotite (dark brown) in a quartzofeldspathic matrix that includes porphyroclastic and partially recrystallized alkali feldspars. High-relief minerals include epidote and zircon.

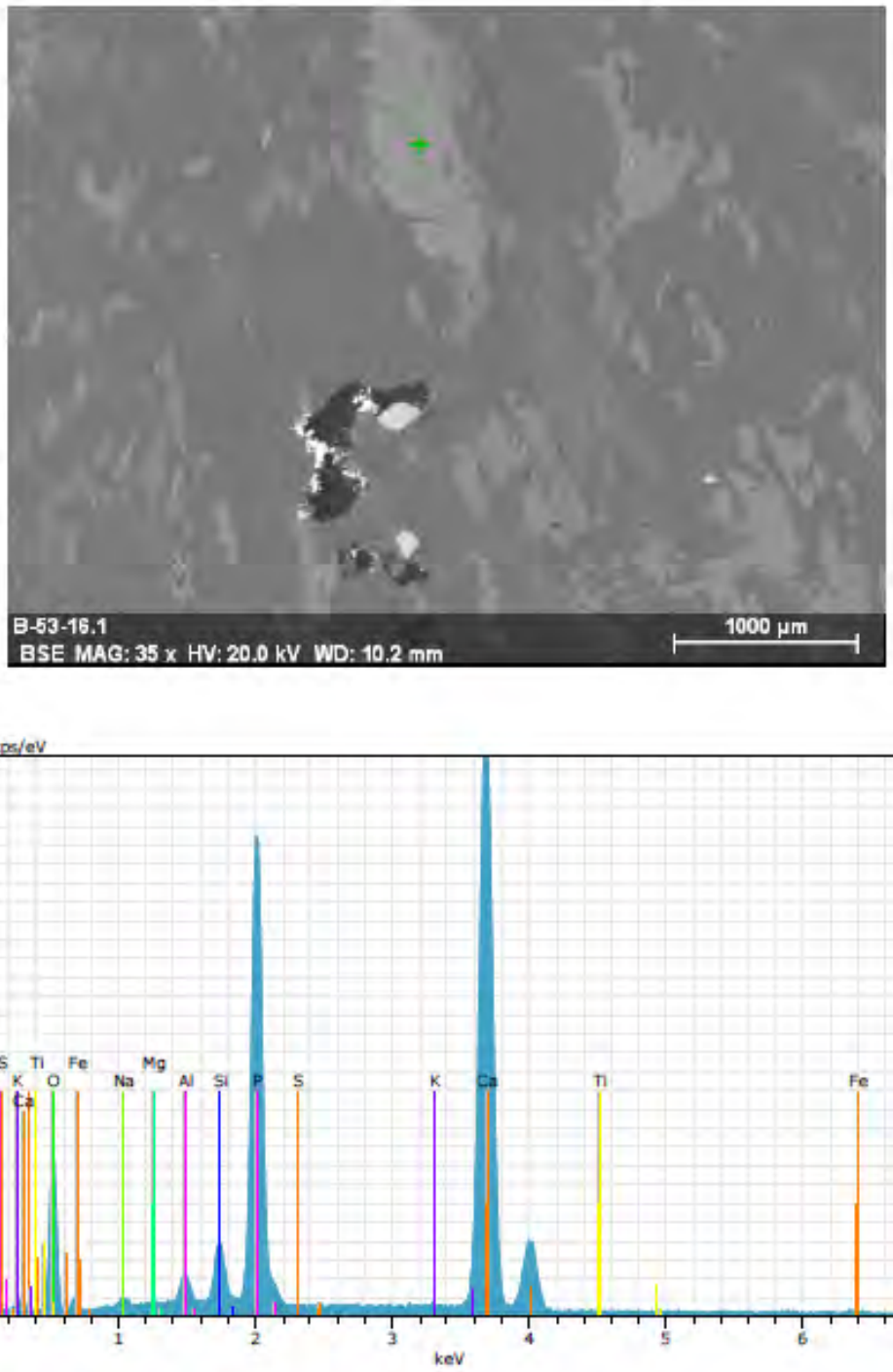
Accessory phases in this sample include pyrite, zircon, epidote, apatite, and monazite.



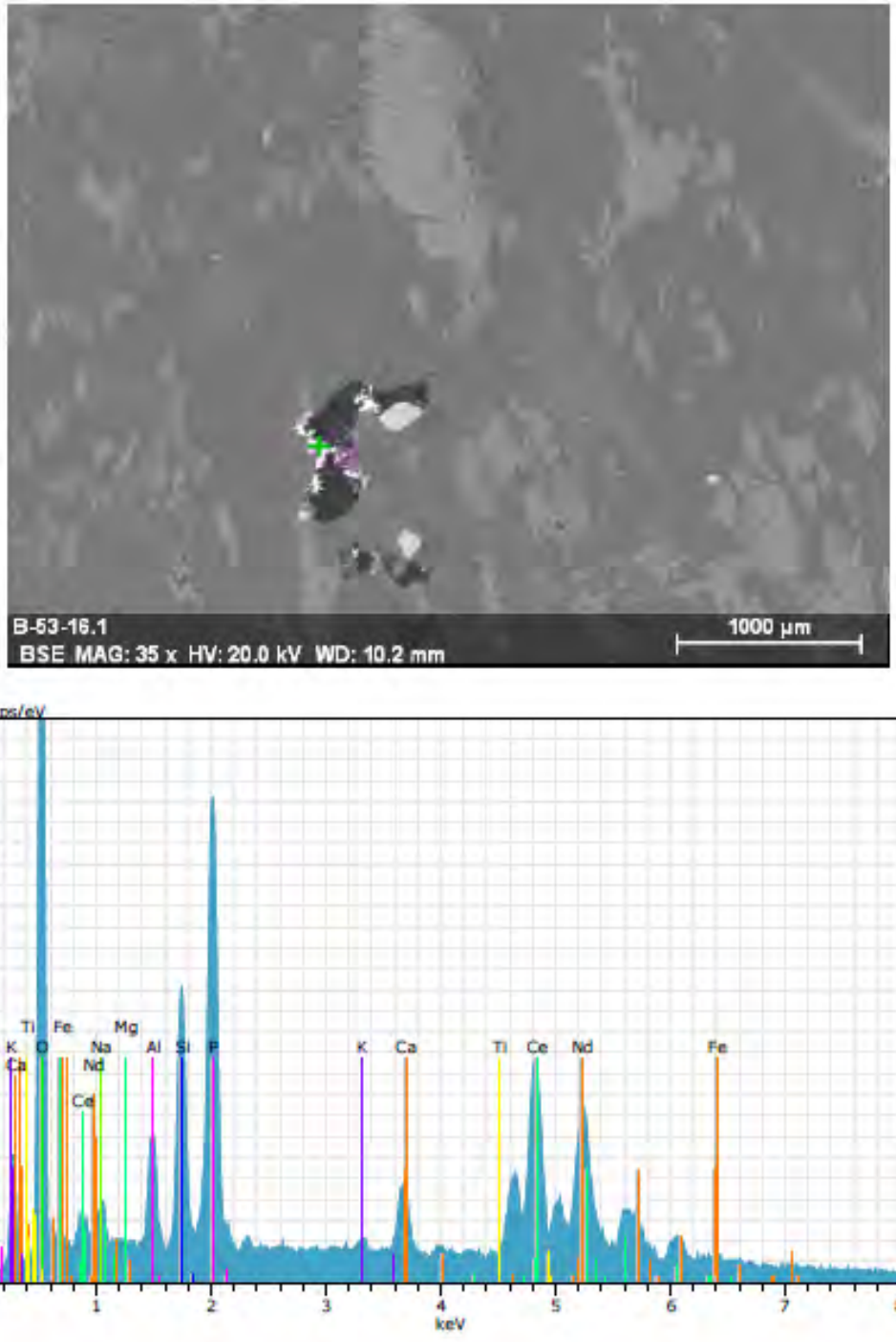
B-53 16.1': BSE image (top) and EDS spectrum (bottom) for **zircon in Long Island Creek Gneiss**; green crosshair on BSE image marks analysis location.



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.



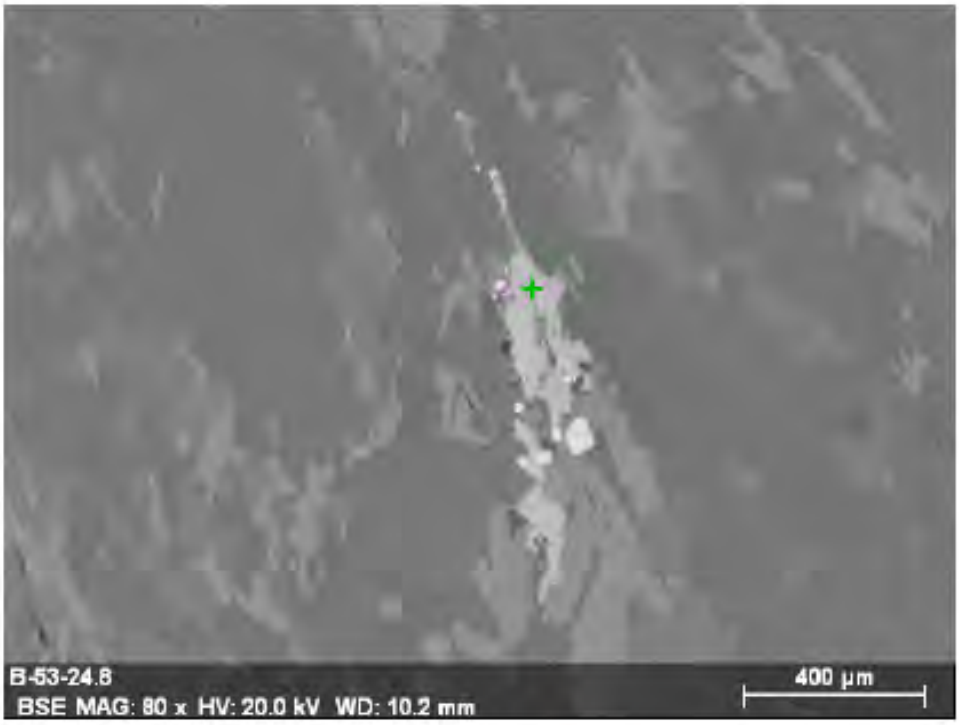
B-53 16.1': BSE image (top) and EDS spectrum (bottom) for **monazite in Long Island Creek Gneiss**; green crosshair on BSE image marks analysis location.

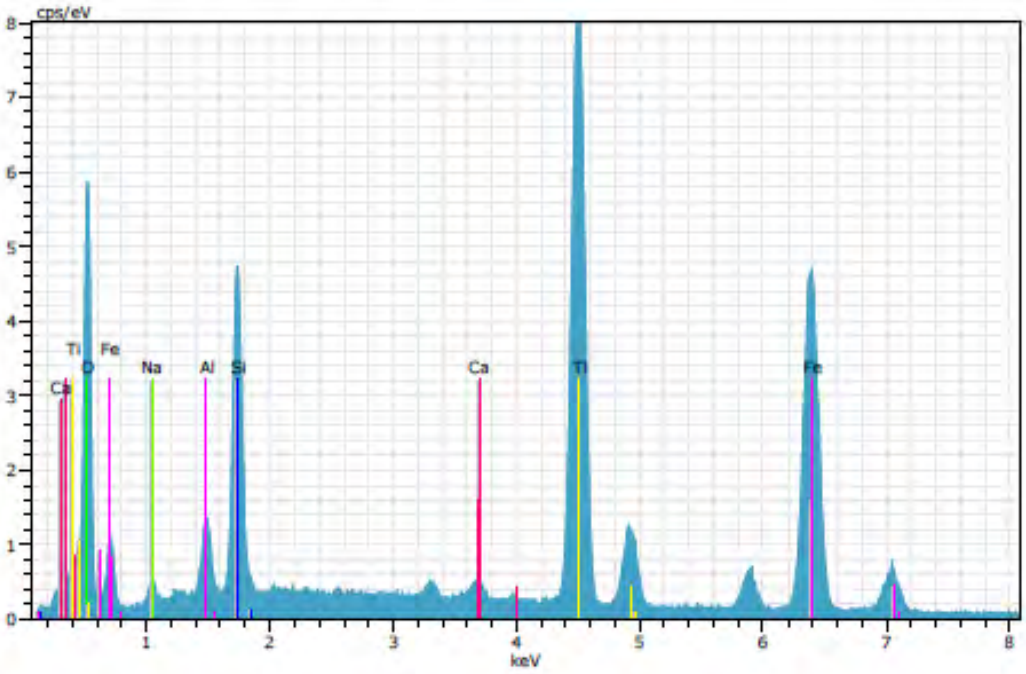
PHOTOMICROGRAPH SAMPLE B-53
24.8 feet



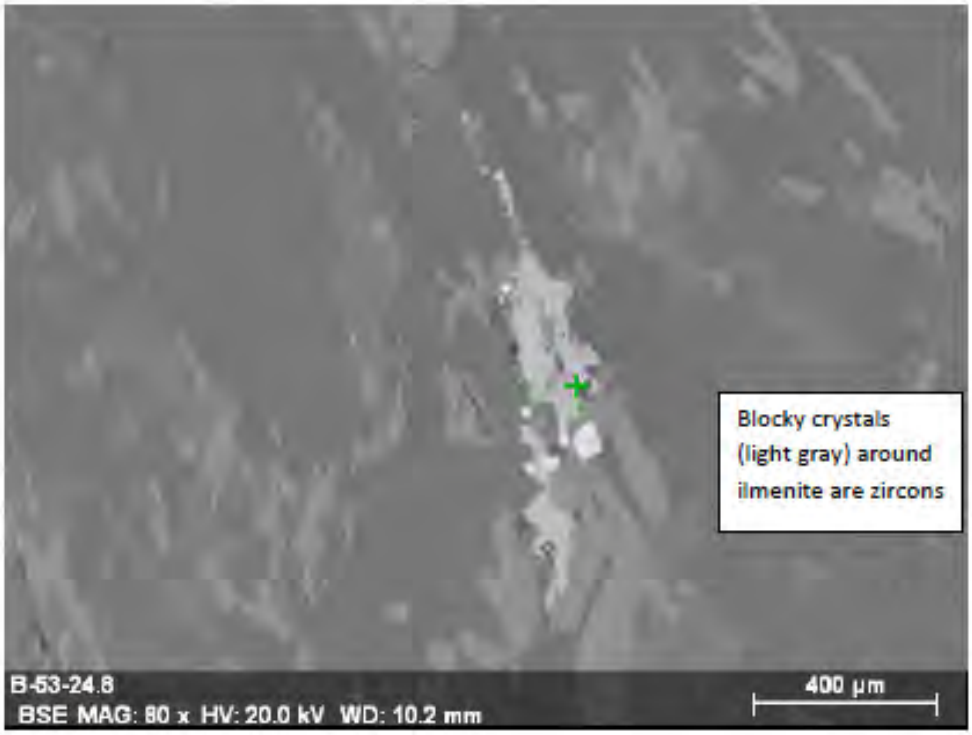
B-53 24.8': Representative photomicrograph of sample matrix, with thin folia of biotite mica (and less abundant muscovite) wrapping around porphyroclastic, partially recrystallized alkali feldspars, ribbon quartz, and small plagioclase.

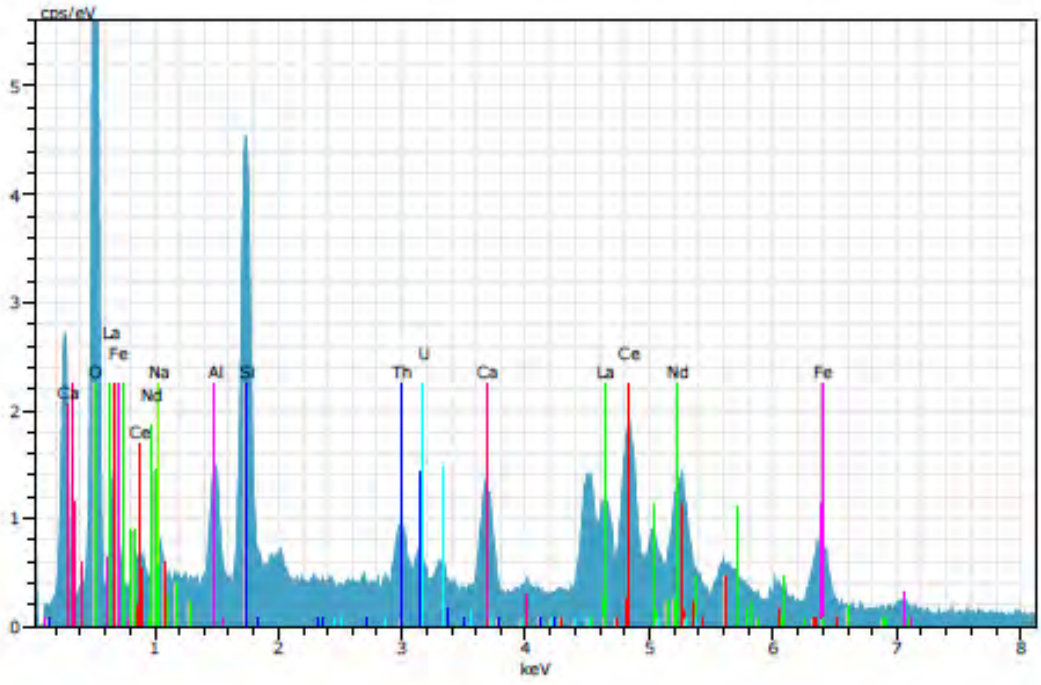
Accessory minerals in this sample include ilmenite, zircon, apatite, and allanite.



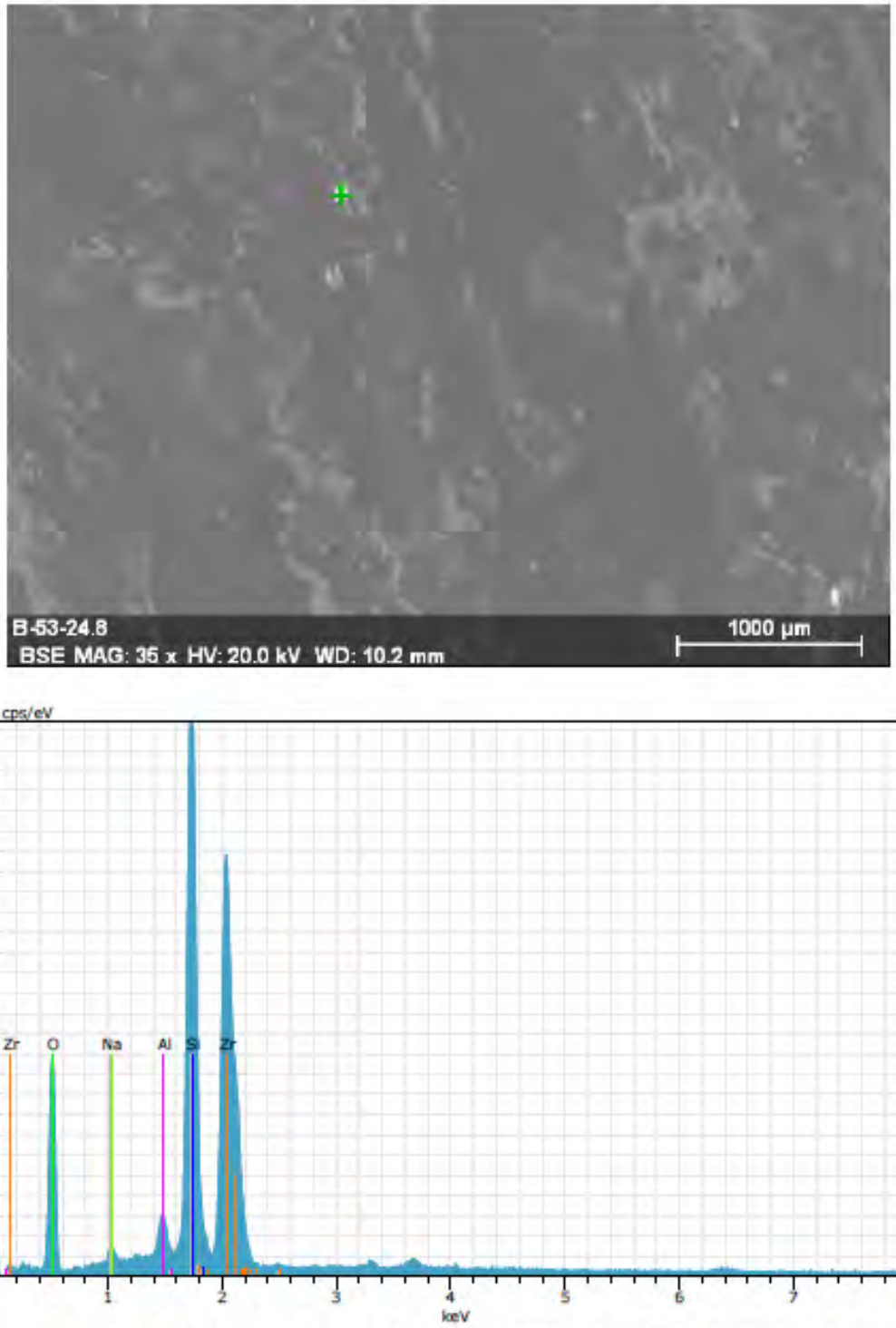


B-53 24.8′: BSE image (top) and EDS spectrum (bottom) for **illmenite in Long Island Creek Gneiss**; green crosshair on BSE image marks analysis location.



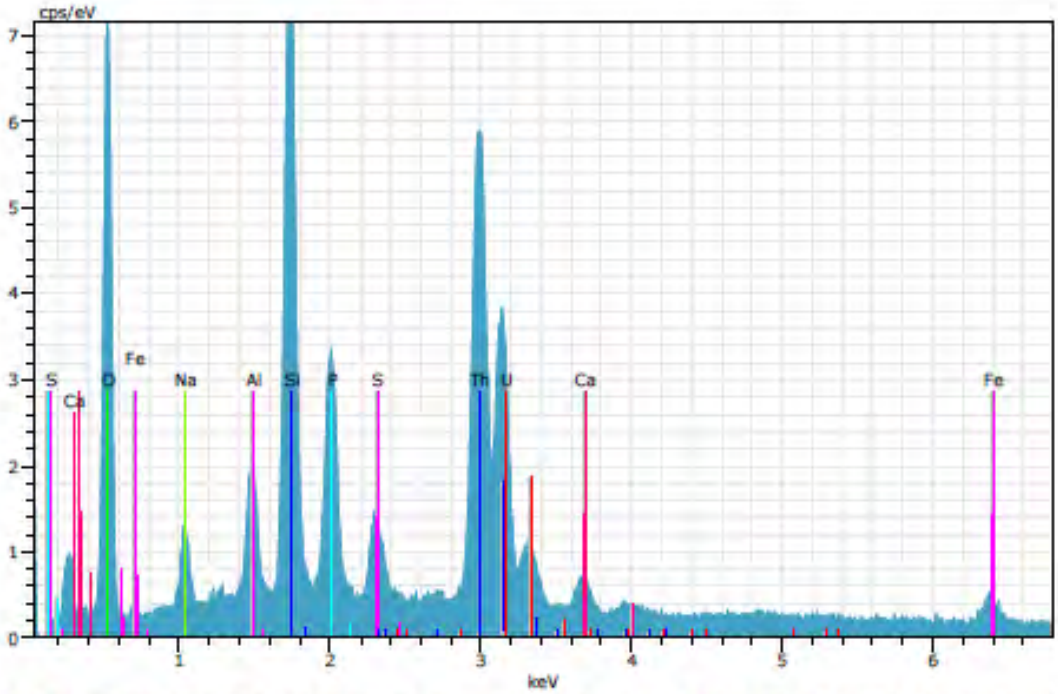


B-53 24.8': BSE image (top) and EDS spectrum (bottom) for **allanite in Long Island Creek Gneiss**; green crosshair on BSE image marks analysis location.



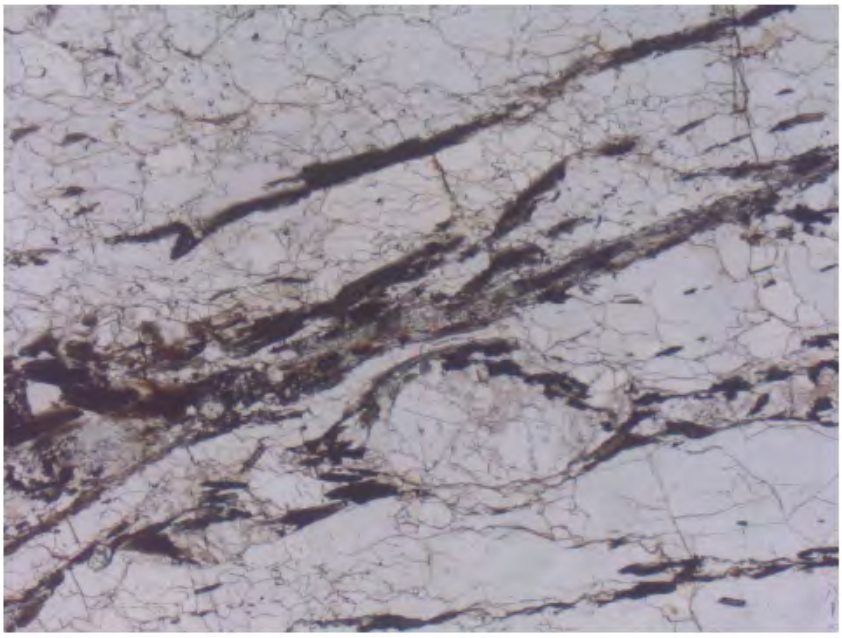
B-53 24.8': BSE image (top) and EDS spectrum (bottom) for **zircon in Long Island Creek Gneiss**; green crosshair on BSE image marks analysis location.





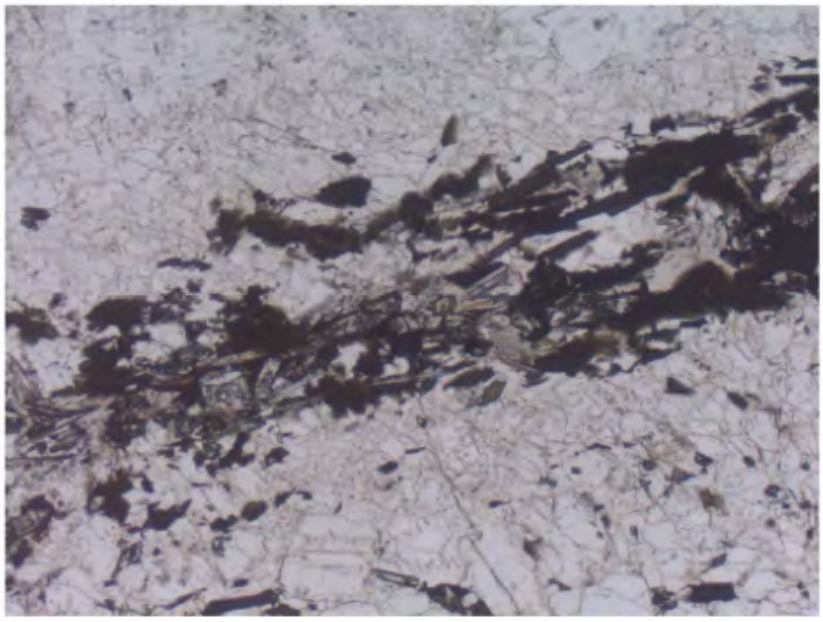
B-53 24.8': BSE image (top) and EDS spectrum (bottom) for **thorite in Long Island Creek Gneiss** (appears metamict); green crosshair on BSE image marks analysis location.

PHOTOMICROGRAPH SAMPLE B-54
32.5 feet

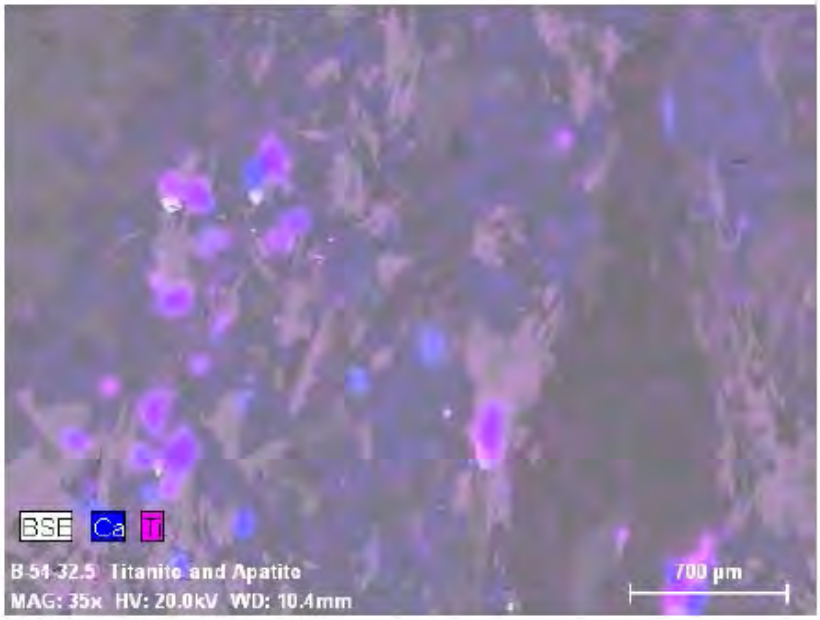


B-54 32.5': This sample contains sheared porphyroclasts of feldspar (small example at center of photo), hosted in a matrix of recrystallized quartz ribbons, biotite, and accessory epidote, titanite, and zircon.

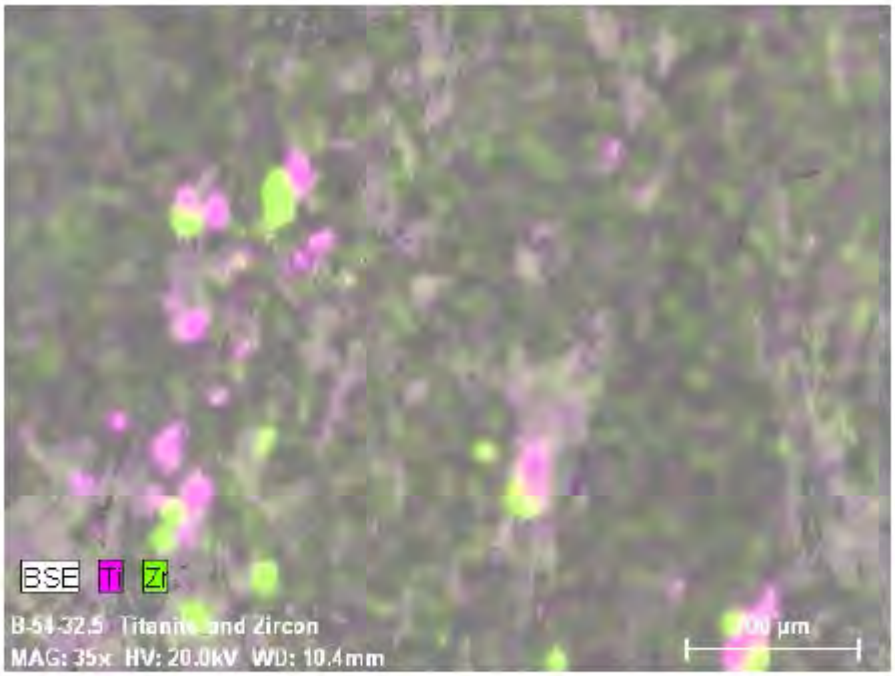
PHOTOMICROGRAPH SAMPLE B-54
32.5 feet



B-54 32.5': This sample contains a small cluster of high-relief titanite and epidote within mica-defined foliation.

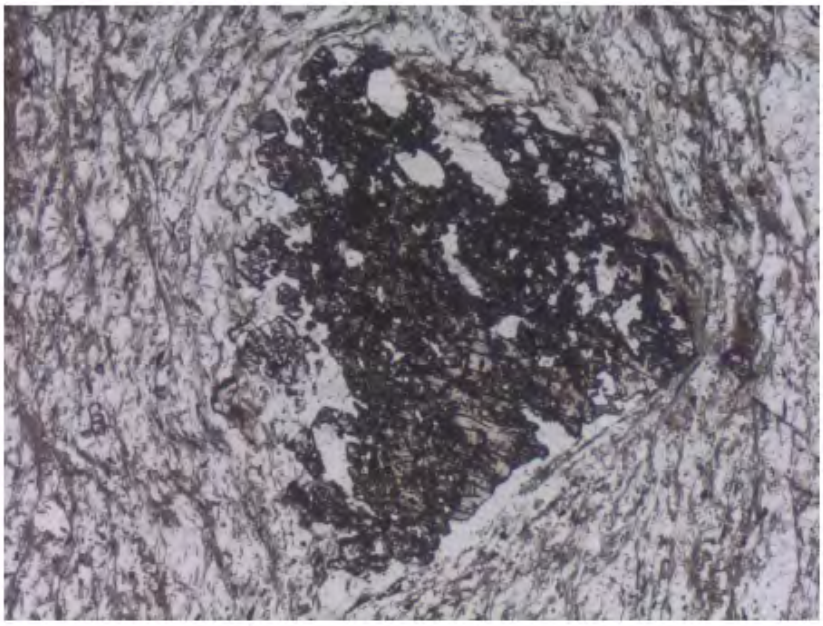


B-54 32.5': False color SEM-EDS chemical map of Ca (blue) and Ti (purple) superimposed on BSE base image; element maps highlight the locations of Apatite (blue) and Titanite (violet) within this area of the sample.



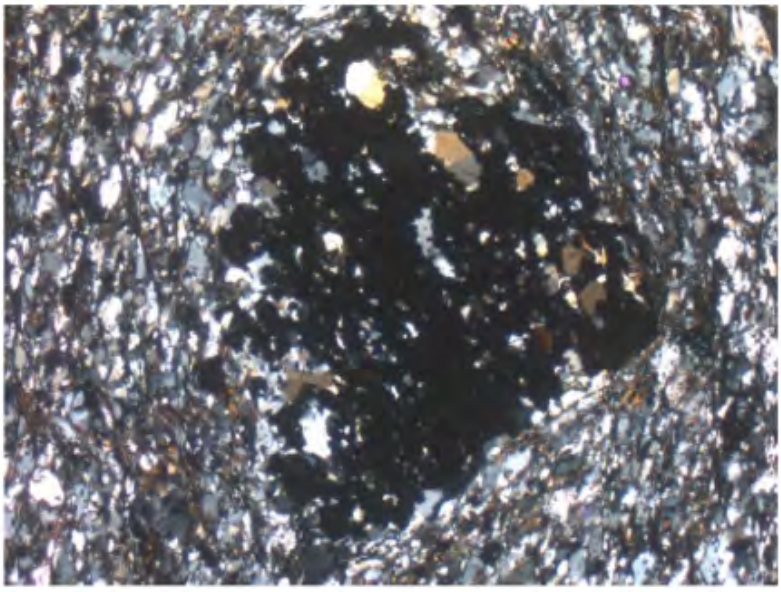
B-54 32.5': False color SEM-EDS chemical map of Ti (purple) and Zr (light green) superimposed on BSE base image; element maps highlight the locations of Titanite (purple) and Zircon (light green and small – note that due to co-location of Zr and P within the energy spectrum, larger apatites are also highlighted) within this area of the sample.

PHOTOMICROGRAPH SAMPLE B-57
44.0 feet

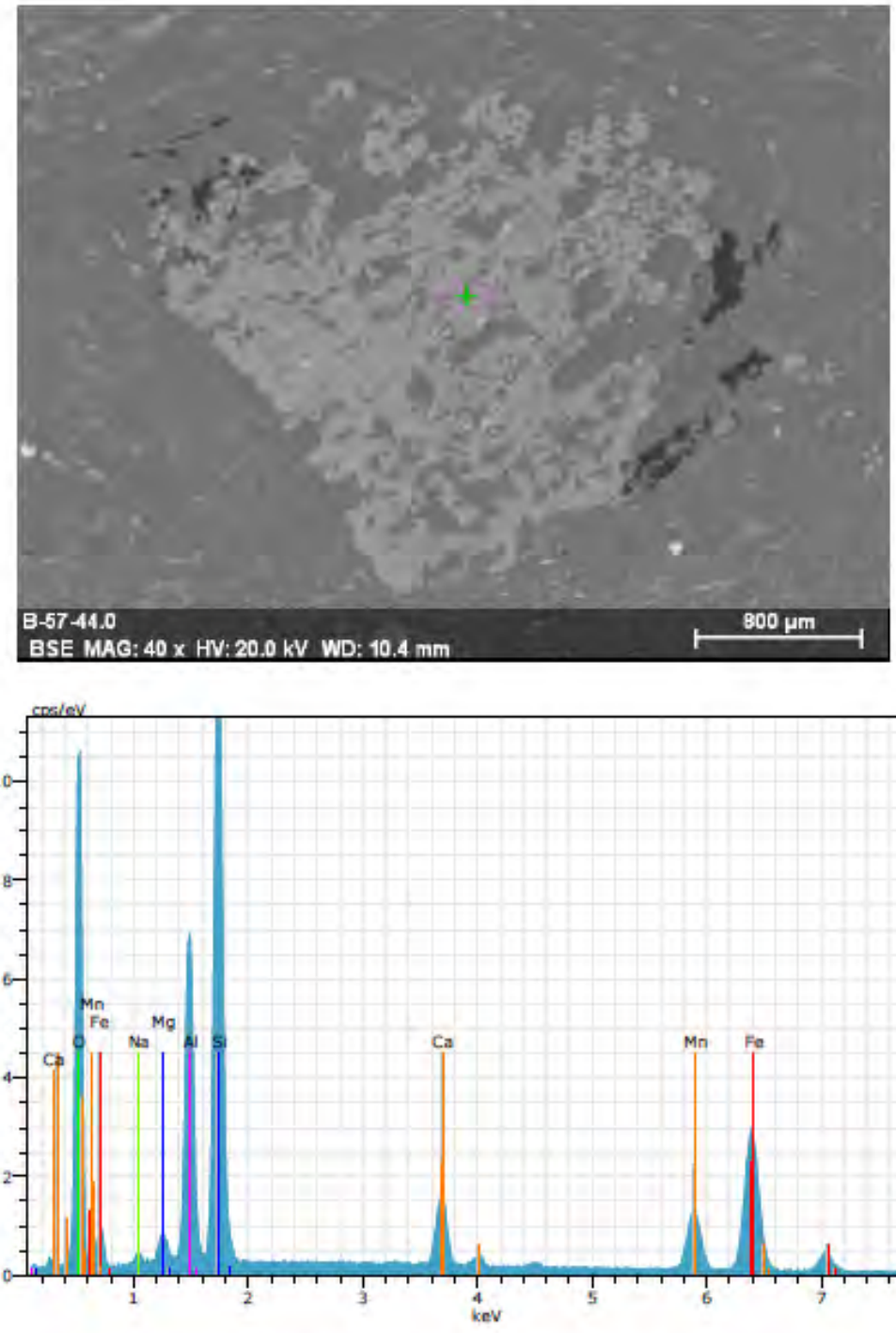


B-57 44.0': Poikiloblastic, anhedral garnet; matrix foliation defined by alignment of fine-grained micas wraps around garnet crystal.

PHOTOMICROGRAPH SAMPLE B-57
44.0 feet

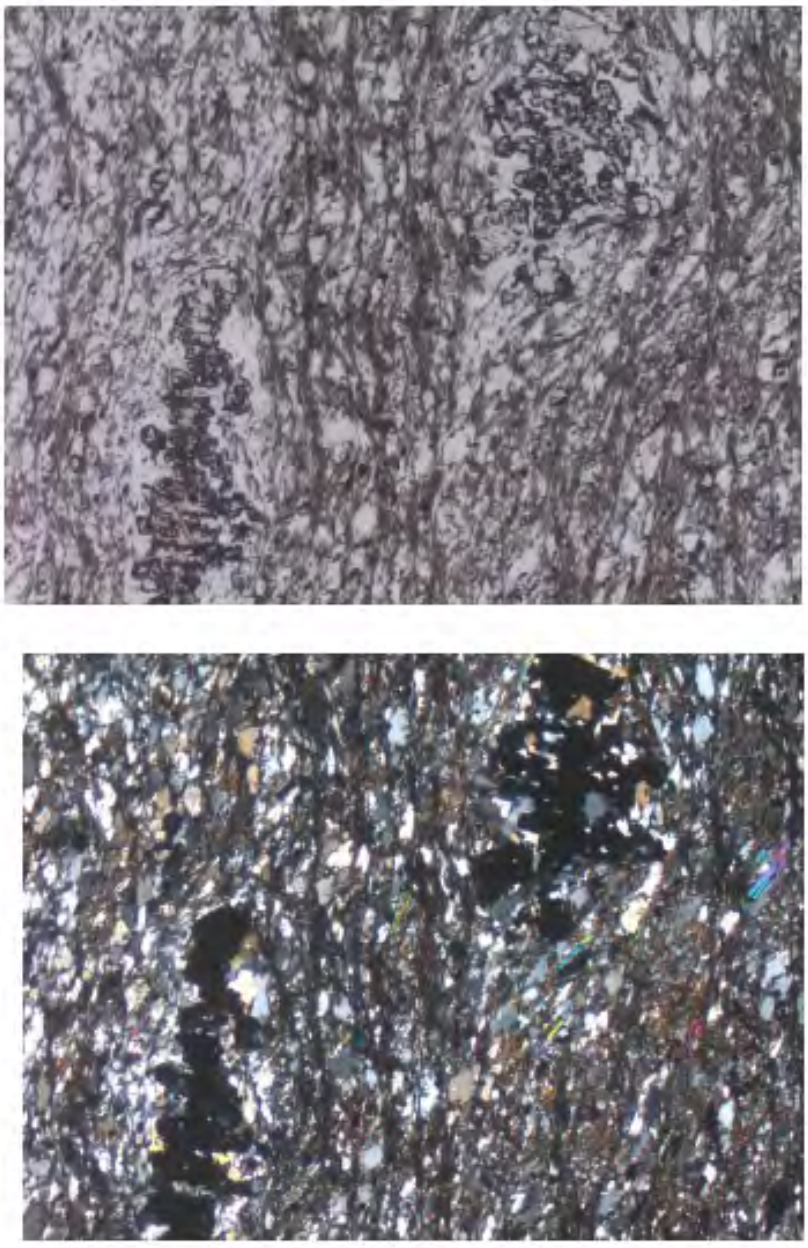


B-57 44.0': Same garnet as above; cross-polarization. Possible alignment of quartz inclusions within garnet defines a fabric that is oblique to matrix foliation.



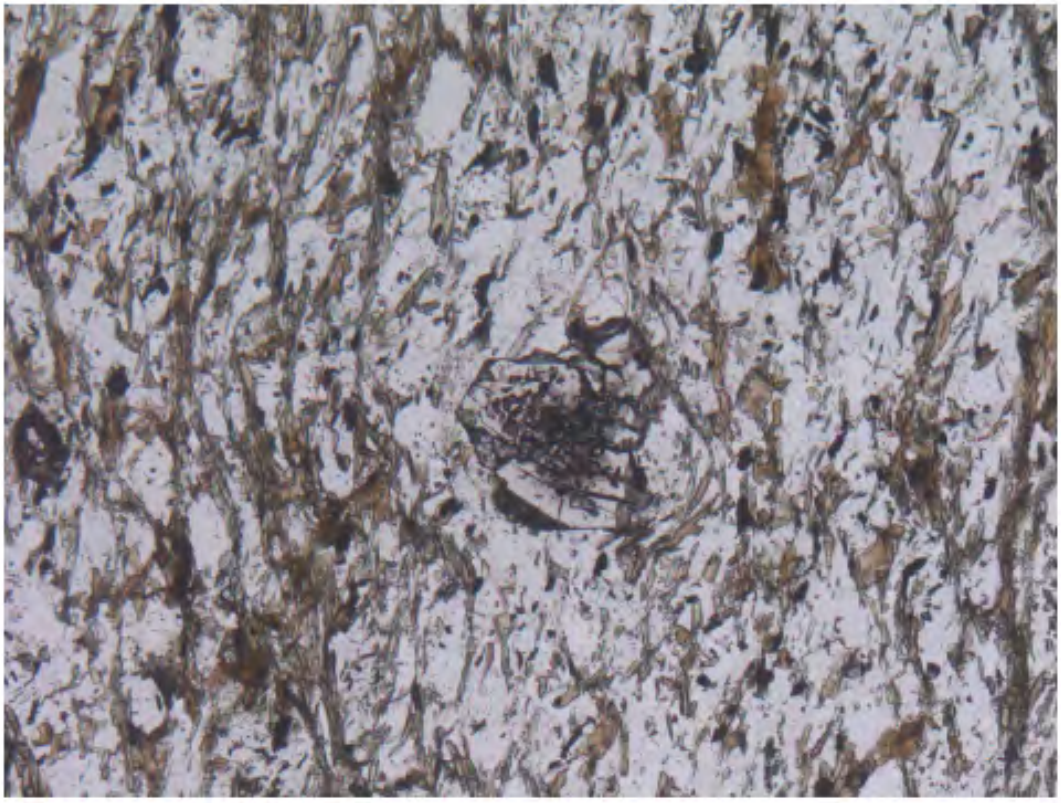
B-57 44.0': BSE (top) and EDS spectrum (bottom) of **garnet** core, green crosshair on BSE image marks analysis location.. Garnet composition is almandine-rich, with significant grossular and spessartine component.

PHOTOMICROGRAPH SAMPLE B-57
44.0 feet



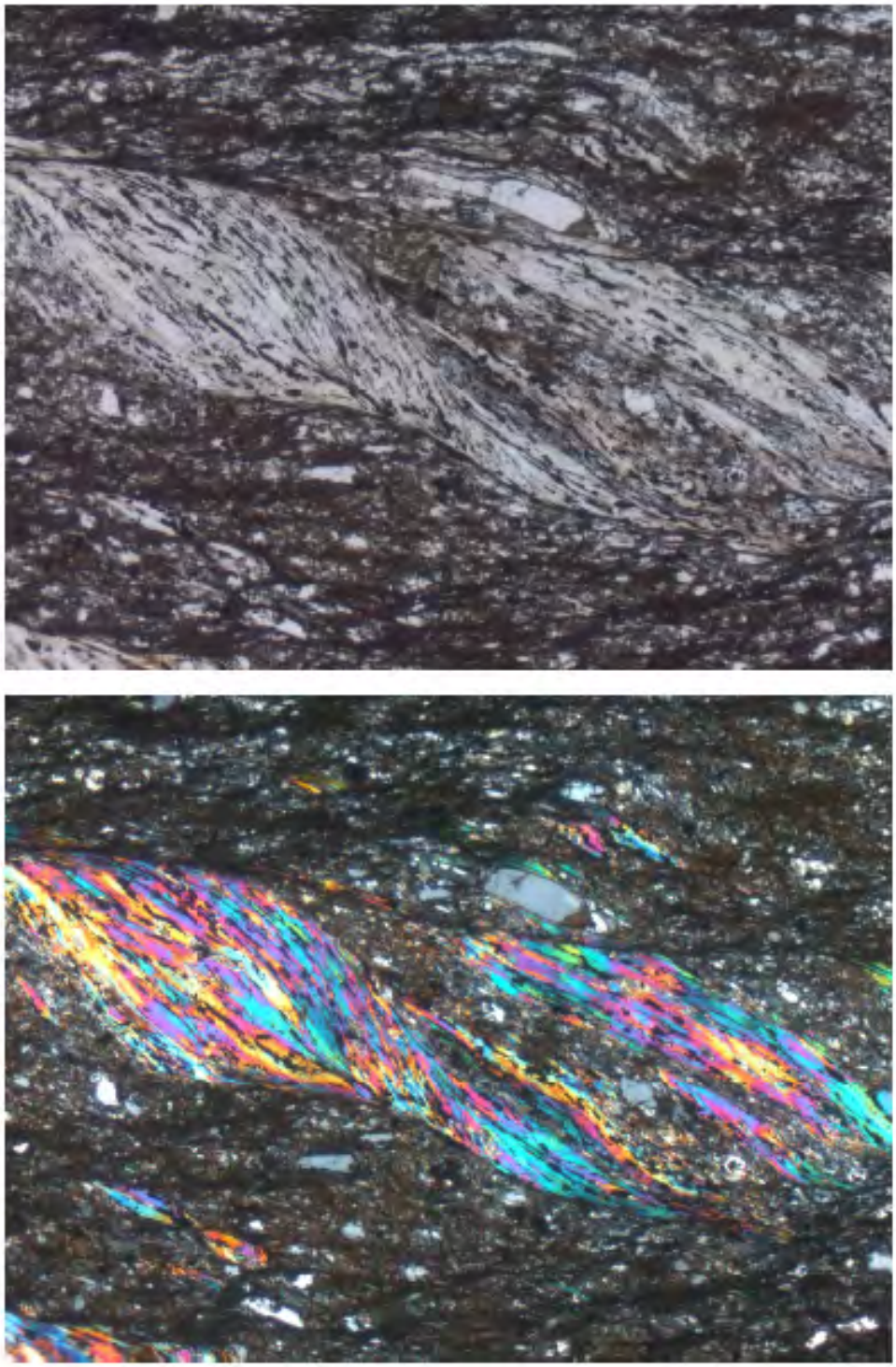
PPL (top) and XPL (bottom) of two anhedral, poikiloblastic garnets. Note increase in abundance of quartz and lack of micas in proximity of garnet, which may suggest local depletion of Al and other nutrients consumed during garnet-forming reaction.

PHOTOMICROGRAPH SAMPLE B-57
44.0 feet



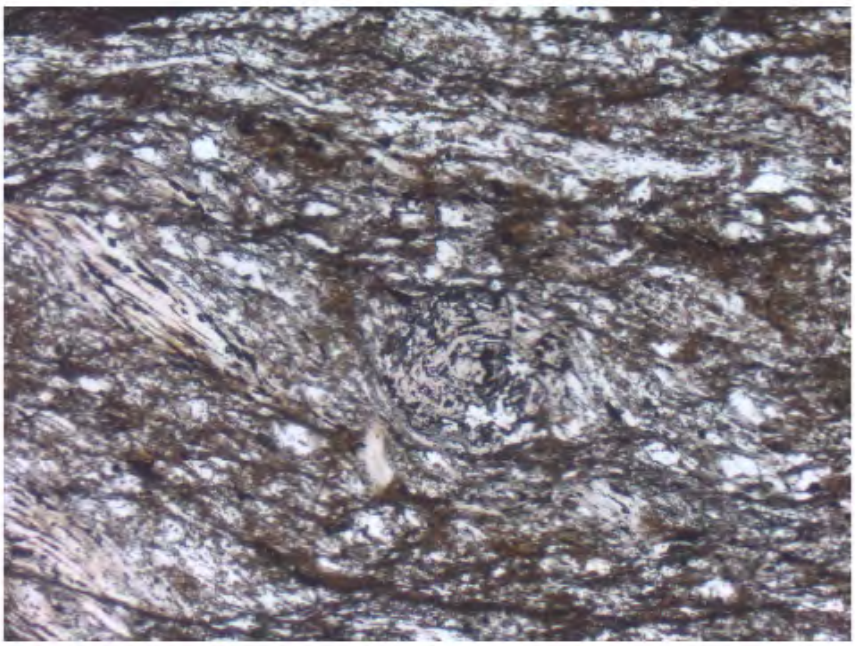
PPL image (5X magnification) of small (sub-mm) subhedral garnet poikiloblast. Note change in inclusion density from core-to-rim.

PHOTOMICROGRAPH SAMPLE B-57
50.5 feet

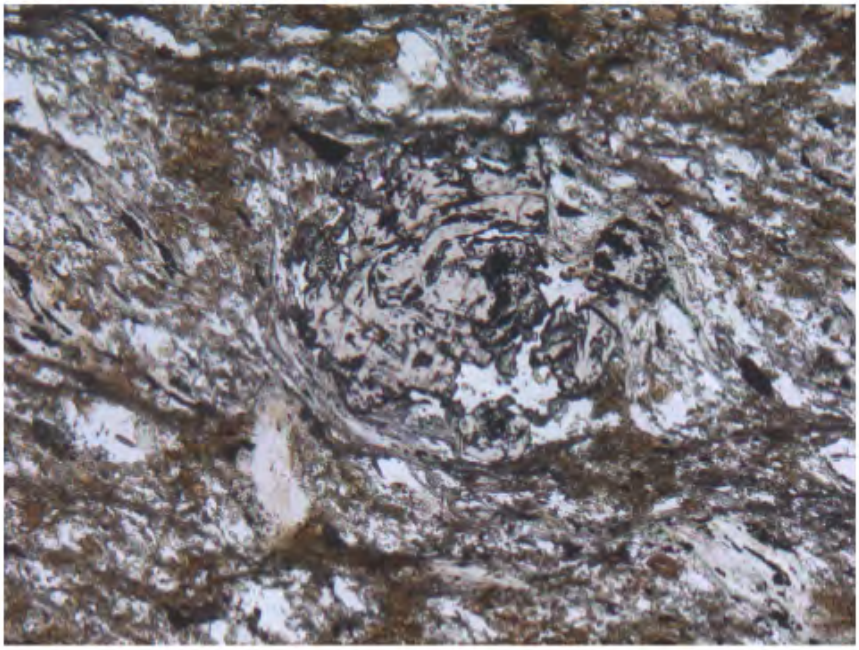


PPL (top) and XPL (bottom) of mica "fish" in sheared button schist.

PHOTOMICROGRAPH SAMPLE B-57
50.5 feet

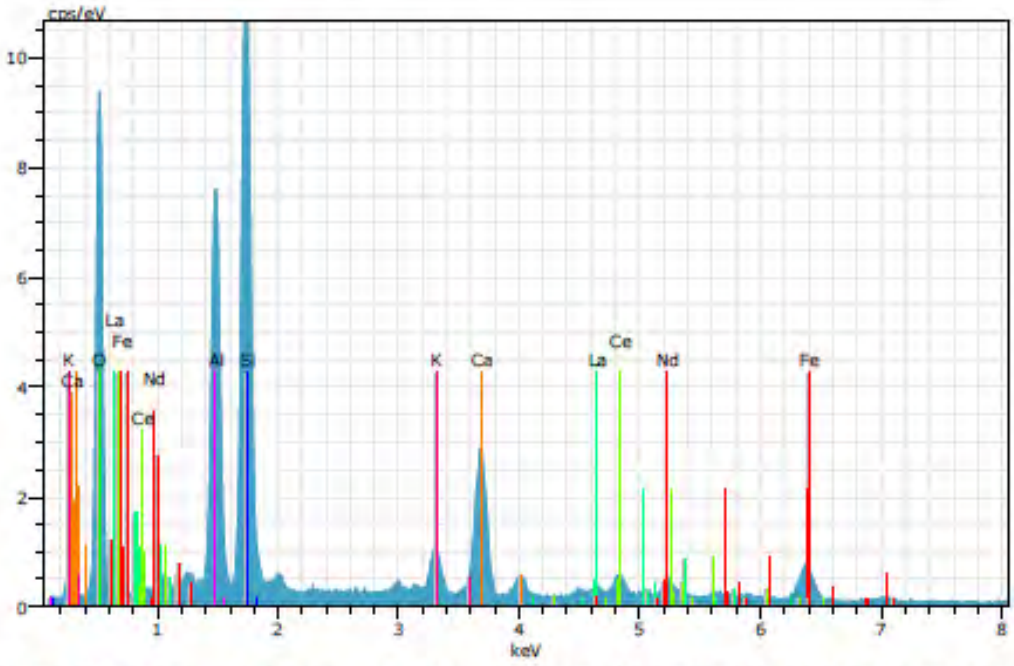


Small (< 1 mm) garnet (center of photo).



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.

APPENDIX B

Radiochemical Analysis Results

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

May 14, 2021

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

RE: Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joe Booth, Resolute Environmental & Water Resources
Trent Godwin, Resolute Environmental & Water Resources
Kristen Jurinko
Ms. Lauren Petty, Southern Company
Kevin Stephenson, Resolute Environmental & Water Resources Consulting, LLC
Stephen Wilson, Resolute Environmental & Water Resources Consulting, LLC

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CERTIFICATIONS

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92532118001	**B-104D 56.5-57'**	Solid	04/08/21 12:00	04/08/21 14:56
92532118002	**B-109D 92.5-93'**	Solid	04/08/21 12:05	04/08/21 14:56
92532118003	**B-111D 82-82.5'**	Solid	04/08/21 12:10	04/08/21 14:56
92532118004	**B-115D 70.9-71.4'**	Solid	04/08/21 12:15	04/08/21 14:56
92532118005	**B-116D 88-88.25'**	Solid	04/08/21 12:20	04/08/21 14:56
92532118006	**B-117D 67-67.5'**	Solid	04/08/21 12:25	04/08/21 14:56
92532118007	**B-119D 101-101.4'**	Solid	04/08/21 12:30	04/08/21 14:56

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SAMPLE ANALYTE COUNT

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92532118001	**B-104D 56.5-57'**	EPA 901.1	MAH	6	PASI-PA
92532118002	**B-109D 92.5-93'**	EPA 901.1	MAH	6	PASI-PA
92532118003	**B-111D 82-82.5'**	EPA 901.1	MAH	6	PASI-PA
92532118004	**B-115D 70.9-71.4'**	EPA 901.1	MAH	6	PASI-PA
92532118005	**B-116D 88-88.25'**	EPA 901.1	MAH	6	PASI-PA
92532118006	**B-117D 67-67.5'**	EPA 901.1	MAH	6	PASI-PA
92532118007	**B-119D 101-101.4'**	EPA 901.1	MAH	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118001	**B-104D 56.5-57'**					
EPA 901.1	Radium-226	2.092 ± 0.499 (0.307) C:NA T:NA	pCi/g		05/06/21 15:24	Ra
EPA 901.1	Radium-228	1.929 ± 0.628 (0.658) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Thorium-232	30.535 ± 97.930 (121.200) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Thorium-234	2.382 ± 5.443 (6.737) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Uranium-235	0.000 ± 0.963 (2.546) C:NA T:NA	pCi/g		05/06/21 15:24	
EPA 901.1	Uranium-238	14.981 ± 18.556 (17.580) C:NA T:NA	pCi/g		05/06/21 15:24	
92532118002	**B-109D 92.5-93'**					
EPA 901.1	Radium-226	1.062 ± 0.248 (0.149) C:NA T:NA	pCi/g		05/06/21 15:25	Ra
EPA 901.1	Radium-228	1.612 ± 0.328 (0.257) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Thorium-232	0.000 ± 15.879 (35.880) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Thorium-234	1.868 ± 1.351 (1.678) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Uranium-235	0.000 ± 0.816 (1.401) C:NA T:NA	pCi/g		05/06/21 15:25	
EPA 901.1	Uranium-238	5.079 ± 12.720 (14.300) C:NA T:NA	pCi/g		05/06/21 15:25	
92532118003	**B-111D 82-82.5'**					
EPA 901.1	Radium-226	1.296 ± 0.310 (0.241) C:NA T:NA	pCi/g		05/06/21 15:56	Ra

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118003	**B-111D 82-82.5'**					
EPA 901.1	Radium-228	1.440 ± 0.518 (0.681) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Thorium-232	40.530 ± 63.887 (77.770) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Thorium-234	1.785 ± 3.710 (4.578) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Uranium-235	0.568 ± 1.526 (1.740) C:NA T:NA	pCi/g		05/06/21 15:56	
EPA 901.1	Uranium-238	0.000 ± 5.574 (19.140) C:NA T:NA	pCi/g		05/06/21 15:56	
92532118004	**B-115D 70.9-71.4'**					
EPA 901.1	Radium-226	1.518 ± 0.291 (0.260) C:NA T:NA	pCi/g		05/06/21 15:58	Ra
EPA 901.1	Radium-228	2.297 ± 0.463 (0.292) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Thorium-232	25.865 ± 22.768 (36.310) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Thorium-234	0.831 ± 1.366 (2.265) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Uranium-235	0.161 ± 1.217 (1.528) C:NA T:NA	pCi/g		05/06/21 15:58	
EPA 901.1	Uranium-238	0.922 ± 17.282 (19.570) C:NA T:NA	pCi/g		05/06/21 15:58	
92532118005	**B-116D 88-88.25'**					
EPA 901.1	Radium-226	1.344 ± 0.346 (0.220) C:NA T:NA	pCi/g		05/06/21 16:34	Ra
EPA 901.1	Radium-228	1.777 ± 0.536 (0.474) C:NA T:NA	pCi/g		05/06/21 16:34	

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SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118005	**B-116D 88-88.25'**					
EPA 901.1	Thorium-232	0.000 ± 33.838 (77.080) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Thorium-234	0.000 ± 1.927 (4.422) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Uranium-235	0.032 ± 1.441 (1.662) C:NA T:NA	pCi/g		05/06/21 16:34	
EPA 901.1	Uranium-238	6.984 ± 15.413 (14.130) C:NA T:NA	pCi/g		05/06/21 16:34	
92532118006	**B-117D 67-67.5'**					
EPA 901.1	Radium-226	1.297 ± 0.322 (0.173) C:NA T:NA	pCi/g		05/06/21 17:06	Ra
EPA 901.1	Radium-228	1.431 ± 0.433 (0.200) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Thorium-232	0.000 ± 41.225 (100.100) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Thorium-234	0.000 ± 2.347 (5.994) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Uranium-235	0.845 ± 1.424 (1.634) C:NA T:NA	pCi/g		05/06/21 17:06	
EPA 901.1	Uranium-238	0.295 ± 19.653 (18.960) C:NA T:NA	pCi/g		05/06/21 17:06	
92532118007	**B-119D 101-101.4'**					
EPA 901.1	Radium-226	1.892 ± 0.320 (0.204) C:NA T:NA	pCi/g		05/06/21 16:35	Ra
EPA 901.1	Radium-228	1.928 ± 0.421 (0.206) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Thorium-232	18.394 ± 35.121 (44.700) C:NA T:NA	pCi/g		05/06/21 16:35	

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(770)734-4200

SUMMARY OF DETECTION

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532118007	**B-119D 101-101.4'**					
EPA 901.1	Thorium-234	0.000 ± 1.622 (2.771) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Uranium-235	0.000 ± 0.575 (1.461) C:NA T:NA	pCi/g		05/06/21 16:35	
EPA 901.1	Uranium-238	10.618 ± 9.175 (9.480) C:NA T:NA	pCi/g		05/06/21 16:35	

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-104D 56.5-57' **Lab ID: 92532118001** Collected: 04/08/21 12:00 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**2.092 ± 0.499 (0.307) C:NA T:NA**	pCi/g	05/06/21 15:24	13982-63-3	Ra
Radium-228	EPA 901.1	**1.929 ± 0.628 (0.658) C:NA T:NA**	pCi/g	05/06/21 15:24	15262-20-1	
Thorium-232	EPA 901.1	**30.535 ± 97.930 (121.200) C:NA T:NA**	pCi/g	05/06/21 15:24	7440-29-1	
Thorium-234	EPA 901.1	**2.382 ± 5.443 (6.737) C:NA T:NA**	pCi/g	05/06/21 15:24	15065-10-8	
Uranium-235	EPA 901.1	**0.000 ± 0.963 (2.546) C:NA T:NA**	pCi/g	05/06/21 15:24	15117-96-1	
Uranium-238	EPA 901.1	**14.981 ± 18.556 (17.580) C:NA T:NA**	pCi/g	05/06/21 15:24		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-109D 92.5-93' **Lab ID: 92532118002** Collected: 04/08/21 12:05 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**1.062 ± 0.248 (0.149) C:NA T:NA**	pCi/g	05/06/21 15:25	13982-63-3	Ra
Radium-228	EPA 901.1	**1.612 ± 0.328 (0.257) C:NA T:NA**	pCi/g	05/06/21 15:25	15262-20-1	
Thorium-232	EPA 901.1	**0.000 ± 15.879 (35.880) C:NA T:NA**	pCi/g	05/06/21 15:25	7440-29-1	
Thorium-234	EPA 901.1	**1.868 ± 1.351 (1.678) C:NA T:NA**	pCi/g	05/06/21 15:25	15065-10-8	
Uranium-235	EPA 901.1	**0.000 ± 0.816 (1.401) C:NA T:NA**	pCi/g	05/06/21 15:25	15117-96-1	
Uranium-238	EPA 901.1	**5.079 ± 12.720 (14.300) C:NA T:NA**	pCi/g	05/06/21 15:25		

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-111D 82-82.5' **Lab ID: 92532118003** Collected: 04/08/21 12:10 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**1.296 ± 0.310 (0.241) C:NA T:NA**	pCi/g	05/06/21 15:56	13982-63-3	Ra
Radium-228	EPA 901.1	**1.440 ± 0.518 (0.681) C:NA T:NA**	pCi/g	05/06/21 15:56	15262-20-1	
Thorium-232	EPA 901.1	**40.530 ± 63.887 (77.770) C:NA T:NA**	pCi/g	05/06/21 15:56	7440-29-1	
Thorium-234	EPA 901.1	**1.785 ± 3.710 (4.578) C:NA T:NA**	pCi/g	05/06/21 15:56	15065-10-8	
Uranium-235	EPA 901.1	**0.568 ± 1.526 (1.740) C:NA T:NA**	pCi/g	05/06/21 15:56	15117-96-1	
Uranium-238	EPA 901.1	**0.000 ± 5.574 (19.140) C:NA T:NA**	pCi/g	05/06/21 15:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-115D 70.9-71.4' **Lab ID: 92532118004** Collected: 04/08/21 12:15 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**1.518 ± 0.291 (0.260) C:NA T:NA**	pCi/g	05/06/21 15:58	13982-63-3	Ra
Radium-228	EPA 901.1	**2.297 ± 0.463 (0.292) C:NA T:NA**	pCi/g	05/06/21 15:58	15262-20-1	
Thorium-232	EPA 901.1	**25.865 ± 22.768 (36.310) C:NA T:NA**	pCi/g	05/06/21 15:58	7440-29-1	
Thorium-234	EPA 901.1	**0.831 ± 1.366 (2.265) C:NA T:NA**	pCi/g	05/06/21 15:58	15065-10-8	
Uranium-235	EPA 901.1	**0.161 ± 1.217 (1.528) C:NA T:NA**	pCi/g	05/06/21 15:58	15117-96-1	
Uranium-238	EPA 901.1	**0.922 ± 17.282 (19.570) C:NA T:NA**	pCi/g	05/06/21 15:58		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-116D 88-88.25' **Lab ID: 92532118005** Collected: 04/08/21 12:20 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**1.344 ± 0.346 (0.220) C:NA T:NA**	pCi/g	05/06/21 16:34	13982-63-3	Ra
Radium-228	EPA 901.1	**1.777 ± 0.536 (0.474) C:NA T:NA**	pCi/g	05/06/21 16:34	15262-20-1	
Thorium-232	EPA 901.1	**0.000 ± 33.838 (77.080) C:NA T:NA**	pCi/g	05/06/21 16:34	7440-29-1	
Thorium-234	EPA 901.1	**0.000 ± 1.927 (4.422) C:NA T:NA**	pCi/g	05/06/21 16:34	15065-10-8	
Uranium-235	EPA 901.1	**0.032 ± 1.441 (1.662) C:NA T:NA**	pCi/g	05/06/21 16:34	15117-96-1	
Uranium-238	EPA 901.1	**6.984 ± 15.413 (14.130) C:NA T:NA**	pCi/g	05/06/21 16:34		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-117D 67-67.5' **Lab ID: 92532118006** Collected: 04/08/21 12:25 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**1.297 ± 0.322 (0.173) C:NA T:NA**	pCi/g	05/06/21 17:06	13982-63-3	Ra
Radium-228	EPA 901.1	**1.431 ± 0.433 (0.200) C:NA T:NA**	pCi/g	05/06/21 17:06	15262-20-1	
Thorium-232	EPA 901.1	**0.000 ± 41.225 (100.100) C:NA T:NA**	pCi/g	05/06/21 17:06	7440-29-1	
Thorium-234	EPA 901.1	**0.000 ± 2.347 (5.994) C:NA T:NA**	pCi/g	05/06/21 17:06	15065-10-8	
Uranium-235	EPA 901.1	**0.845 ± 1.424 (1.634) C:NA T:NA**	pCi/g	05/06/21 17:06	15117-96-1	
Uranium-238	EPA 901.1	**0.295 ± 19.653 (18.960) C:NA T:NA**	pCi/g	05/06/21 17:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Sample: B-119D 101-101.4' **Lab ID: 92532118007** Collected: 04/08/21 12:30 Received: 04/08/21 14:56 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 901.1	**1.892 ± 0.320 (0.204) C:NA T:NA**	pCi/g	05/06/21 16:35	13982-63-3	Ra
Radium-228	EPA 901.1	**1.928 ± 0.421 (0.206) C:NA T:NA**	pCi/g	05/06/21 16:35	15262-20-1	
Thorium-232	EPA 901.1	**18.394 ± 35.121 (44.700) C:NA T:NA**	pCi/g	05/06/21 16:35	7440-29-1	
Thorium-234	EPA 901.1	**0.000 ± 1.622 (2.771) C:NA T:NA**	pCi/g	05/06/21 16:35	15065-10-8	
Uranium-235	EPA 901.1	**0.000 ± 0.575 (1.461) C:NA T:NA**	pCi/g	05/06/21 16:35	15117-96-1	
Uranium-238	EPA 901.1	**10.618 ± 9.175 (9.480) C:NA T:NA**	pCi/g	05/06/21 16:35		

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QUALITY CONTROL - RADIOCHEMISTRY

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

QC Batch: 444911
QC Batch Method: EPA 901.1
Analysis Method: EPA 901.1
Analysis Description: 901.1 Gamma Spec Ingrowth
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92532118001, 92532118002, 92532118003, 92532118004, 92532118005

METHOD BLANK: 2147795 Matrix: Solid
Associated Lab Samples: 92532118001, 92532118002, 92532118003, 92532118004, 92532118005, 92532118006, 92532118007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.039 ± 0.069 (0.117) C:NA T:NA	pCi/g	04/27/21 13:30	Ra
Radium-228	0.042 ± 0.087 (0.195) C:NA T:NA	pCi/g	04/27/21 13:30	
Thorium-232	4.826 ± 10.987 (15.230) C:NA T:NA	pCi/g	04/27/21 13:30	
Thorium-234	0.021 ± 0.700 (1.011) C:NA T:NA	pCi/g	04/27/21 13:30	
Uranium-235	0.040 ± 0.068 (0.713) C:NA T:NA	pCi/g	04/27/21 13:30	
Uranium-238	3.072 ± 3.895 (6.635) C:NA T:NA	pCi/g	04/27/21 13:30	

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

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Ra	The reported Ra-226 results were determined by hermetically sealing the dried, processed sample in an appropriate-sized can. Each sample was stored for a minimum of 21 days to ensure that equilibrium between Ra-226 and daughters Bi-214 and Pb-214 was achieved. Reported Ra-226 results were inferred from gamma peaks attributable to Bi-214 and Pb-214.

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT MCDONOUGH AP-1
Pace Project No.: 92532118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92532118001	**B-104D 56.5-57'**	EPA 901.1	444911		
92532118002	**B-109D 92.5-93'**	EPA 901.1	444911		
92532118003	**B-111D 82-82.5'**	EPA 901.1	444911		
92532118004	**B-115D 70.9-71.4'**	EPA 901.1	444911		
92532118005	**B-116D 88-88.25'**	EPA 901.1	444911		
92532118006	**B-117D 67-67.5'**	EPA 901.1	444911		
92532118007	**B-119D 101-101.4'**	EPA 901.1	444911		

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Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92532118

92532118

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

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

Date/Initials Person Examining Contents: 4/8/24

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 214 ☐ Wet ☐ Blue ☑ None

Type of Ice:

Cooler Temp: 22.0 **Correction Factor:** Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 22.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6. 250ml Glass Mason Jars
-Pace Containers Used?	☐ Yes	☑ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: SL				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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#: 92532118

PM: KLH1 **Due Date: 04/29/21**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VIH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BG3U (Mason Jar)	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																									1			
2																									1			
3																									1			
4																									1			
5																									1			
6																									1			
7																									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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

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:		Section B Required Project Information:		Section C Invoice Information:	
Company	Georgia Power - Coal Combustion Residuals	Report To:	Joju Abraham	Attention:	scsinvoices@southernco.com
Address:	2480 Maner Road	Copy To:	Golder	Company Name:	
	Atlanta, GA 30339			Address:	
Email:	jabraham@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	(404) 506-7239 Fax:	Project Name:	Plant McDonough AP-1	Pace Project Manager:	Kevin Herring
Requested Due Date:	10 Day TAT	Project #:	166849618	Pace Profile #:	

Regulatory Agency
State / Location
GA

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

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved - Ice	H2SO4	HNO3	HCl	NaOH + Zn Acetate	Na2S2O3	Methanol	Other	Analyses Test Y/N	Gamma Spectometry U Th Re	Residual Chlorine (Y/N)
1	B-104D 56.5-57'	SL	G	4/8/2021	12:00		1										X	
2	B-109D 92.5-93'	SL	G	4/8/2021	12:05		1										X	
3	B-111D 82-82.5'	SL	G	4/8/2021	12:10		1										X	
4	B-115D 70.9-71.4'	SL	G	4/8/2021	12:15		1										X	
5	B-116D 88-88.25'	SL	G	4/8/2021	12:20		1										X	
6	B-117D 67-67.5'	SL	G	4/8/2021	12:25		1										X	
7	B-119D 101-101.4'	SL	G	4/8/2021	12:30		1										X	
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Michael Bartman	4/8/2021	14:56	K. Williams / Pace	4/8/21	1456	

DATE Signed:

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

Gamma Spec Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst: MAH
Date: 4/27/2021
Batch ID: 60140
Matrix: SOLID

Method: EPA 901.1

Geometry: 4 OZ CANS
Activity Units: pCi
Aliquot Units: GRAM

Method Blank Assessment Method Blank ID: 2147795

Analytes of Interest	MB Result	2 Sigma CSU	MB MDC	Numerical Indicator	MB Evaluation
Ra-226	0.039	0.069	0.117	1.124	Pass
Ra-228	0.042	0.087	0.195	0.947	Pass
Th-232	4.826	10.987	15.230	0.861	Pass
Th-234	0.021	0.700	1.011	0.058	Pass
U-235	0.040	0.068	0.713	1.163	Pass
U-238	3.072	3.895	6.635	1.546	Pass

Duplicate Sample Precision Assessment

	Sample ID:		Duplicate Sample ID:				
Analytes of Interest	Sample Results	Sample 2 Sigma CSU	Duplicate Results	Duplicate 2 Sigma CSU	Numerical Indicator	% RPD	Evaluation
Ra-226					#DIV/0!	#DIV/0!	#DIV/0!
Ra-228					#DIV/0!	#DIV/0!	#DIV/0!
Th-232					#DIV/0!	#DIV/0!	#DIV/0!
Th-234					#DIV/0!	#DIV/0!	#DIV/0!
U-235					#DIV/0!	#DIV/0!	#DIV/0!
U-238					#DIV/0!	#DIV/0!	#DIV/0!

Duplicate LCS Precision Assessment

Analyte	LCS Concentration	LCS 2 Sigma CSU	LCSD Concentration	LCSD 2 Sigma CSU	Numerical Indicator	Percent RPD	Precision Evaluation
Lead-210	1432.400	189.430	1555.700	255.020	-0.761	8.3%	Pass
Cobalt-60	20.642	2.282	20.499	2.743	0.079	0.7%	Pass
Cesium-137	46.814	5.219	48.877	6.576	-0.482	4.3%	Pass

Laboratory Control Sample Assessment

	Analyte	Lead-210	Cobalt-60	Cesium-137
	Count Date	4/27/2021	4/27/2021	4/27/2021
	Reference ID	14-008Pb	14-008Co	14-008Cs
Volume or Mass of	Reference Concentration	1387.046	21.589	49.586
Reference Geometry	Reference Uncertainty	0.059	0.059	0.059
	LCS Concentration	1432.4	20.642	46.814
	LCS 2 Sigma CSU	189.430	2.282	5.219
	Numerical Indicator	-0.47	0.81	1.04
	Percent Recovery	103.3%	95.6%	94.4%
	LCS Evaluation	Pass	Pass	Pass

Laboratory Control Sample Duplicate Assessment

Analyte	Lead-210	Cobalt-60	Cesium-137
Count Date	4/27/2021	4/27/2021	4/27/2021
Reference ID	14-008Pb	14-008Co	14-008Cs
Reference Concentration	1387.046	21.589	49.586
Reference Uncertainty	0.059	0.059	0.059
LCSD Concentration	1555.7	20.499	48.877
LCSD 2 Sigma CSU	255.020	2.743	6.576
Numerical Indicator	-1.30	0.78	0.21
Percent Recovery	112.2%	95.0%	98.6%
LCSD Evaluation	Pass	Pass	Pass

Evaluation: If the sample or Duplicate sample activity is below the associated MDC, the %RPD evaluation is not applicable and the sample duplicate precision criteria is acceptable.

UPDATED FOR NEW ANALYTES.
DMS 5/10/21

APPENDIX C

2024 Groundwater Sampling Results for Relevant AP-2 and 3/4 Wells

APPENDIX C
GROUNDWATER ANALYTICAL DATA SUMMARY
January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, 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
		01/30/2024	--	01/30/2024	02/01/2024	02/01/2024	02/01/2024	02/01/2024	02/05/2024	02/02/2024	02/01/2024	02/02/2024	01/31/2024	02/05/2024
CCR-Appendix III-WG														
BORON, TOTAL	mg/L	0.065	--	0.015 J	0.37	4.3	2.5	0.69	--	0.17	1.5	0.41	0.63	0.13
CALCIUM, TOTAL	mg/L	13.7	--	6.10	33.3	268	146	30.6	--	79.3	55.1	31.7	30.8	12.7
CHLORIDE, TOTAL	mg/L	1.6	--	8.2	1.90	8.70	11.6	10.5	--	9.2	11.1	6.90	11.1	3.70
FLUORIDE, TOTAL	mg/L	0.070 J	--	< 0.050	0.067 J	< 0.050	0.12	0.064 J	--	1.2	< 0.050	0.12	0.079 J	0.054 J
SULFATE, TOTAL	mg/L	13.4	--	7.90	97.6	824	539	138	--	336	260	134	100	44.0
TOTAL DISSOLVED SOLIDS	mg/L	130	--	86.0	220	1450	948	272	--	548	463	274	216	127
pH, FIELD	S.U.	6.28	--	5.79	6.02	5.67	4.78	5.21	--	4.72	5.49	6.06	5.74	5.69
CCR-Appendix IV-WG														
ANTIMONY, TOTAL	mg/L	< 0.00054	--	< 0.00054	< 0.00054	0.0028 J	0.00068 J	< 0.00054	--	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
ARSENIC, TOTAL	mg/L	< 0.00084	--	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	--	0.0063	< 0.00084	< 0.00084	< 0.00084	< 0.00084
BARIUM, TOTAL	mg/L	0.096	--	0.029	0.024	0.032	0.016	0.020	--	0.018 J	0.038	0.054	0.024	0.057
BERYLLIUM, TOTAL	mg/L	< 0.000094	--	0.000098 J	< 0.000094	0.00039 J	0.0075	0.0010	--	0.0069	0.00019 J	< 0.000094	< 0.000094	< 0.000094
CADMIUM, TOTAL	mg/L	< 0.00010	--	< 0.00010	< 0.00010	0.00099	0.0012	0.0011	--	0.00039 J	0.00017 J	< 0.00010	< 0.00010	< 0.00010
CHROMIUM, TOTAL	mg/L	< 0.0019	--	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	--	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
COBALT, TOTAL	mg/L	0.0083	--	< 0.00032	0.0027 J	0.0016 J	0.015	0.0013 J	--	0.064	0.00082 J	0.015	< 0.00032	< 0.00032
LEAD, TOTAL	mg/L	< 0.00016	--	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	--	< 0.00082	< 0.00016	< 0.00016	< 0.00016	< 0.00016
LITHIUM, TOTAL	mg/L	0.0087 J	--	< 0.0016	0.017 J	0.0038 J	0.0075 J	0.0031 J	--	0.0042 J	0.0016 J	< 0.0016	0.0035 J	0.0046 J
MERCURY, TOTAL	mg/L	< 0.00013	--	< 0.00013	< 0.00013	< 0.00013	0.00024	< 0.00013	--	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	0.025	--	< 0.00062	0.0024 J	0.0027 J	< 0.00062	< 0.00062	--	< 0.00062	< 0.00062	< 0.00062	0.0081 J	< 0.00062
COMBINED RADIUM (226 + 228)	pCi/L	0.478 U	--	0.305 U	1.06	1.39	1.18	1.18	--	1.50	0.104 U	0.686 U	1.04 U	0.651 U
SELENIUM, TOTAL	mg/L	< 0.00096	--	< 0.00096	0.0014 J	< 0.00096	0.0017 J	< 0.00096	--	0.031	< 0.00096	< 0.00096	0.0039 J	0.0019 J
THALLIUM, TOTAL	mg/L	< 0.00038	--	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	--	< 0.0019	< 0.00038	< 0.00038	< 0.00038	< 0.00038
FLUORIDE, TOTAL	mg/L	0.070 J	--	< 0.050	0.067 J	< 0.050	0.12	0.064 J	--	1.2	< 0.050	0.12	0.079 J	0.054 J
Additional Parameters														
ALKALINITY , BICARBONATE	mg/L	66.5	--	17.8	45.5	98.8	5.6	7.3	--	< 5.0	15.4	51.1	22.5	16.2
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
ALKALINITY , TOTAL	mg/L	66.5	--	17.8	45.5	98.8	5.6	7.3	--	< 5.0	15.4	51.1	22.5	16.2
IRON, TOTAL	mg/L	10.1	--	< 0.025	0.19	< 0.025	< 0.025	< 0.025	--	< 0.025	< 0.025	22.8	0.037 J	0.062
FERROUS (II) IRON, TOTAL	mg/L	4.5	--	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	7.0	0.0	0.0
MAGNESIUM	mg/L	4.7	--	0.91	7.4	38.5	26.1	15.8	--	5.2	27.8	18.1	7.2	5.0
POTASSIUM	mg/L	3.6	--	0.81	5.4	10.7	5.5	4.2	--	4.7	4.3	9.9	4.4	3.4
SODIUM	mg/L	6.3	--	7.8	9.2	57.2	26.8	12.7	--	11.3	20.5	9.2	17.0	7.2
SULFIDE	mg/L	< 0.022	--	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	--	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

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. DGWC-9 was dry during the January-February 2024 Sampling Event. DGWA-70A was not sampled due to access restriction at the time of sampling.
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

APPENDIX C
GROUNDWATER ANALYTICAL DATA SUMMARY
January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, 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
		02/05/2024	02/06/2024	02/01/2024	02/01/2024	01/31/2024	01/31/2024	01/31/2024	01/30/2024	02/05/2024	02/05/2024	02/05/2024	02/01/2024	02/01/2024
Appendix III														
BORON, TOTAL	mg/L	1.6	0.93	2.4	2.7	6.5	4.5	5.3	1.1	0.13	0.46	1.6	0.083	0.45
CALCIUM, TOTAL	mg/L	32.8	19.7	113	112	85.3	57.1	95.7	29.9	23.9	61.7	22.5	33.2	22.6
CHLORIDE, TOTAL	mg/L	20.4	18.0	14.2	27.2	17.8	16.0	12.5	18.1	2.2	6.1	6.9	5.6	6.3
FLUORIDE, TOTAL	mg/L	0.065 J	0.10	0.19	1.4	< 0.050	< 0.050	0.074 J	< 0.050	0.53	0.43	0.34	0.14	0.12
SULFATE, TOTAL	mg/L	124	261	394	628	267	224	279	294	118	258	236	49.4	57.0
TOTAL DISSOLVED SOLIDS	mg/L	288	477	656	1050	503	423	564	551	253	496	421	205	185
pH	S.U.	5.86	5.07	4.98	4.49	5.67	5.71	5.95	5.18	4.11	4.33	4.71	6.41	5.84
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
ARSENIC, TOTAL	mg/L	< 0.00084	< 0.00084	0.00088 J	0.025	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0010 J	< 0.00084	0.0042 J	< 0.00084	< 0.00084
BARIUM, TOTAL	mg/L	0.037	0.027	0.024	0.015 J	0.024	0.030	0.023	0.015	0.018	0.013	0.026	0.017	0.062
BERYLLIUM, TOTAL	mg/L	< 0.000094	0.00058	0.0015	0.0078	0.00017 J	0.00013 J	0.00048 J	0.0024	0.0074	0.0055	0.0013	0.00015 J	0.00035 J
CADMIUM, TOTAL	mg/L	< 0.00010	0.00027 J	0.00029 J	0.0030	0.00057	0.00055	0.00012 J	0.0010	0.0011	0.0022	0.00036 J	< 0.00010	0.00014 J
CHROMIUM, TOTAL	mg/L	< 0.0019	0.0029 J	0.0024 J	0.0021 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
COBALT, TOTAL	mg/L	0.0019 J	0.018	0.056	1.3	0.0097	0.0067	0.00070 J	0.0076	0.18	0.27	0.070	< 0.00032	0.030
LEAD, TOTAL	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.0016	< 0.00016	< 0.00016	< 0.00016	0.00017 J	0.00029 J	0.00077 J	< 0.00016	< 0.00016	< 0.00016
LITHIUM, TOTAL	mg/L	0.0059 J	< 0.0016	0.0024 J	0.012 J	0.0065 J	0.0037 J	0.0024 J	0.0078 J	0.046	0.083	0.0061 J	0.0094 J	0.0052 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	0.00029	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0069 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
RADIUM (226 + 228)	pCi/L	0.698 U	0.234 U	0.347 U	1.38	0.542 U	0.395 U	1.10	0.822 U	1.39	1.55	0.988 U	2.08	0.922 U
SELENIUM, TOTAL	mg/L	0.0010 J	0.0081	0.0051	0.082	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0032 J	0.0017 J	0.020	< 0.00096	< 0.00096
THALLIUM, TOTAL	mg/L	< 0.00038	< 0.00038	0.00057 J	< 0.0038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
FLUORIDE, TOTAL	mg/L	0.065 J	0.10	0.19	1.4	< 0.050	< 0.050	0.074 J	< 0.050	0.53	0.43	0.34	0.14	0.12
Additional Parameters														
ALKALINITY , BICARBONATE	mg/L	17.6	5.5	< 5.0	< 5.0	31.5	24.8	80.8	7.5	< 5.0	< 5.0	< 5.0	86.5	80.9
ALKALINITY , TOTAL	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 , CARBONATE	mg/L	17.6	5.5	< 5.0	< 5.0	31.5	24.8	80.8	7.5	< 5.0	< 5.0	< 5.0	86.5	80.9
IRON, TOTAL	mg/L	0.11	0.21	0.087	< 0.13	< 0.025	< 0.025	0.025 J	0.078	2.5	3.8	0.083	5.3	7.0
FERROUS (II) IRON, TOTAL	mg/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.5	0.0	6.0	7.0
MAGNESIUM	mg/L	13.6	55.4	11.4	23.1	18.2	20.7	23.4	23.3	6.9	14.1	34.7	4.7	7.7
POTASSIUM	mg/L	4.3	3.8	4.5	13.7	6.4	5.9	6.7	4.9	5.3	13.5	5.0	2.6	2.9
SODIUM	mg/L	19.2	17.5	40.5	19.5 H	22.8	24.7	23.4	70.8	6.9	18.7	20.1	10.6	12.3
SULFIDE	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022

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. DGWC-9 was dry during the January-February 2024 Sampling Event. DGWA-70A was not sampled due to access restriction at the time of sampling.
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

APPENDIX C
GROUNDWATER ANALYTICAL DATA SUMMARY
January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, 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
		02/01/2024	02/05/2024	02/01/2024	02/01/2024	02/05/2024	01/30/2024	01/30/2024	01/31/2024	01/30/2024	01/31/2024	02/02/2024	02/02/2024	02/05/2024
Appendix III														
BORON, TOTAL	mg/L	2.1	0.28	0.36	0.39	2.4	3.1	3.0	3.7	0.081	0.13	1.3	1.9	0.22
CALCIUM, TOTAL	mg/L	43.5	19.0	55.7	33.1	118	126	140	200	32.7	24.3	92.4	64.5	157
CHLORIDE, TOTAL	mg/L	9.0	3.2	11.9	2.4	8.9	15.0	17.1	17.3	4.4	7.5	9.9	10.3	7.1
FLUORIDE, TOTAL	mg/L	0.10	0.067 J	0.093 J	0.073 J	< 0.050	0.23	0.18	0.093 J	0.13	0.063 J	0.063 J	0.081 J	0.29
SULFATE, TOTAL	mg/L	256	0.78 J	368	98.3	433	557	550	667	9.2	340	353	222	449
TOTAL DISSOLVED SOLIDS	mg/L	498	122	641	212	802	952	992	1150	154	582	649	414	830
pH	S.U.	6.17	6.53	5.61	5.65	5.48	4.64	4.72	5.53	6.65	5.35	6.75	5.45	6.26
Appendix IV														
ANTIMONY, TOTAL	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.00062 J	0.0010 J	< 0.00054
ARSENIC, TOTAL	mg/L	< 0.00084	0.0014 J	< 0.00084	< 0.00084	< 0.00084	0.0021 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.00093 J
BARIUM, TOTAL	mg/L	0.025	0.11	0.024	0.027	0.015	0.018	0.014	0.022	0.048	0.019	0.071	0.019	0.018
BERYLLIUM, TOTAL	mg/L	< 0.000094	< 0.000094	0.0016	0.00038 J	0.0015	0.016	0.013	0.0017	< 0.000094	0.00047 J	< 0.000094	0.00081	0.0014
CADMIUM, TOTAL	mg/L	0.00018 J	< 0.00010	0.00072	0.00027 J	0.0023	0.0013	0.00080	0.00064	< 0.00010	0.00033 J	< 0.00010	0.00061	< 0.00010
CHROMIUM, TOTAL	mg/L	< 0.0019	< 0.0019	< 0.0019	0.0023 J	< 0.0019	< 0.0019	0.0024 J	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
COBALT, TOTAL	mg/L	0.019	0.00032 J	0.0021 J	0.017	0.0018 J	0.060	0.031	0.0032 J	< 0.00032	0.065	0.0026 J	0.0088	0.16
LEAD, TOTAL	mg/L	< 0.00016	0.00066 J	< 0.00016	< 0.00016	0.00073 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00047 J
LITHIUM, TOTAL	mg/L	< 0.0016	< 0.0016	< 0.0016	0.0023 J	0.0044 J	0.014 J	0.010 J	0.0046 J	< 0.0016	< 0.0016	0.015 J	0.010 J	0.037
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00015 J	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.00095 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062
RADIUM (226 + 228)	pCi/L	0.294 U	0.952 U	0.485 U	0.466 U	1.09 U	1.63	1.04 U	1.40	0.597 U	0.0563 U	1.15	0.277 U	15.2
SELENIUM, TOTAL	mg/L	< 0.00096	< 0.00096	0.0028 J	0.017	0.0039 J	0.019	0.0063	0.0032 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0015 J
THALLIUM, TOTAL	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
FLUORIDE, TOTAL	mg/L	0.10	0.067 J	0.093 J	0.073 J	< 0.050	0.23	0.18	0.093 J	0.13	0.063 J	0.063 J	0.081 J	0.29
Additional Parameters														
ALKALINITY , BICARBONATE	mg/L	64.1	117	20.4	39.4	14.0	< 5.0	10.3	57.7	98.8	28.8	38.9	14.4	69.3
ALKALINITY , TOTAL	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 , CARBONATE	mg/L	64.1	117	20.4	39.4	14.0	< 5.0	10.3	57.7	98.8	28.8	38.9	14.4	69.3
IRON, TOTAL	mg/L	0.50	42.6	0.069	0.058	0.086	< 0.025	< 0.025	< 0.025	0.088	10.5	0.39	0.029 J	11.3
FERROUS (II) IRON, TOTAL	mg/L	0.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.5	0.0	7.0
MAGNESIUM	mg/L	40.7	6.3	62.3	9.2	40.8	23.2	26.0	34.3	2.1	25.4	35.3	13.7	27.9
POTASSIUM	mg/L	5.6	2.2	7.9	2.2	11.5	6.6	6.6	5.5	6.1	0.84	7.0	5.7	8.2
SODIUM	mg/L	29.2	6.3	18.9	10.2	29.0	25.1	29.2	39.5	2.8	19.3	27.2	19.7	19.4
SULFIDE	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	0.025 J

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. DGWC-9 was dry during the January-February 2024 Sampling Event. DGWA-70A was not sampled due to access restriction at the time of sampling.
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.

APPENDIX C
GROUNDWATER ANALYTICAL DATA SUMMARY
January-February 2024
Georgia Power Company
Plant McDonough - Ash Pond 2 and 3/4
Cobb County, Georgia

Analyte	UNITS	ASSESSMENT MONITORING WELLS						
		B-106D	B-107D	B-108D	B-111D	B-120D	B-122D	B-125D
		02/02/2024	02/01/2024	02/01/2024	02/05/2024	02/05/2024	02/01/2024	02/05/2024
Appendix III								
BORON, TOTAL	mg/L	0.86	12.0	6.0	0.25	1.5	0.28	0.95
CALCIUM, TOTAL	mg/L	28.9	78.9	75.3	102	115	53.6	10.5
CHLORIDE, TOTAL	mg/L	8.1	14.4	28.9	20.3	5.7	12.7	9.8
FLUORIDE, TOTAL	mg/L	0.059 J	< 0.050	0.13	0.40	0.061 J	0.18	0.068 J
SULFATE, TOTAL	mg/L	112	299	337	235	374	127	434
TOTAL DISSOLVED SOLIDS	mg/L	252	580	629	586	710	361	864
pH	S.U.	5.83	5.84	5.70	7.11	5.26	6.01	6.06
Appendix IV								
ANTIMONY, TOTAL	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.00060 J	< 0.00054
ARSENIC, TOTAL	mg/L	< 0.00084	< 0.00084	0.0080	< 0.00084	< 0.00084	< 0.00084	< 0.00084
BARIUM, TOTAL	mg/L	0.023	0.040	0.048	0.025	0.033	0.052	0.050
BERYLLIUM, TOTAL	mg/L	0.00010 J	< 0.000094	0.00058	< 0.000094	0.00089	0.00045 J	< 0.000094
CADMIUM, TOTAL	mg/L	< 0.00010	< 0.00010	0.00018 J	< 0.00010	0.00097	< 0.00010	< 0.00010
CHROMIUM, TOTAL	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
COBALT, TOTAL	mg/L	< 0.00032	0.00088 J	0.12	< 0.00032	0.0018 J	0.0087	0.0039 J
LEAD, TOTAL	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
LITHIUM, TOTAL	mg/L	0.0051 J	0.014 J	0.015 J	0.022 J	0.057	0.013 J	0.028 J
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00062	< 0.00062	< 0.00062	0.010	< 0.00062	0.0011 J	0.0033 J
RADIUM (226 + 228)	pCi/L	0.203 U	0.666 U	1.11	1.33	1.93	14.6	2.43
SELENIUM, TOTAL	mg/L	< 0.00096	< 0.00096	0.025	< 0.00096	0.0045 J	< 0.00096	< 0.00096
THALLIUM, TOTAL	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
FLUORIDE, TOTAL	mg/L	0.059 J	< 0.050	0.13	0.40	0.061 J	0.18	0.068 J
Additional Parameters								
ALKALINITY , BICARBONATE	mg/L	34.4	27.2	20.1	116	25.3	108	93.1
ALKALINITY , TOTAL	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
ALKALINITY , CARBONATE	mg/L	34.4	27.2	20.1	116	25.3	108	93.1
IRON, TOTAL	mg/L	< 0.025	0.31	2.2	0.092	< 0.025	10.7	2.2
FERROUS (II) IRON, TOTAL	mg/L	0.0	0.25	0.5	1.5	0.0	7.0	6.5
MAGNESIUM	mg/L	13.1	30.1	28.6	10.0	24.6	10.3	7.7
POTASSIUM	mg/L	3.4	5.8	6.0	10.9	8.3	4.2	3.1
SODIUM	mg/L	13.6	20.5	17.8	49.1	27.7	25.6	10.1
SULFIDE	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	0.053 J

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. DGWC-9 was dry during the January-February 2024 Sampling Event. DGWA-70A was not sampled due to access restriction at the time of sampling.
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.



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