



## Plant McIntosh Ash Pond 1

Permit No. 051-011D(CCR)  
Effingham County

### 2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT



## PROFESSIONAL CERTIFICATION

This 2023 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant McIntosh Ash Pond 1 has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residuals 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 Atlantic Coast Consulting, Inc. (ACC). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-01.

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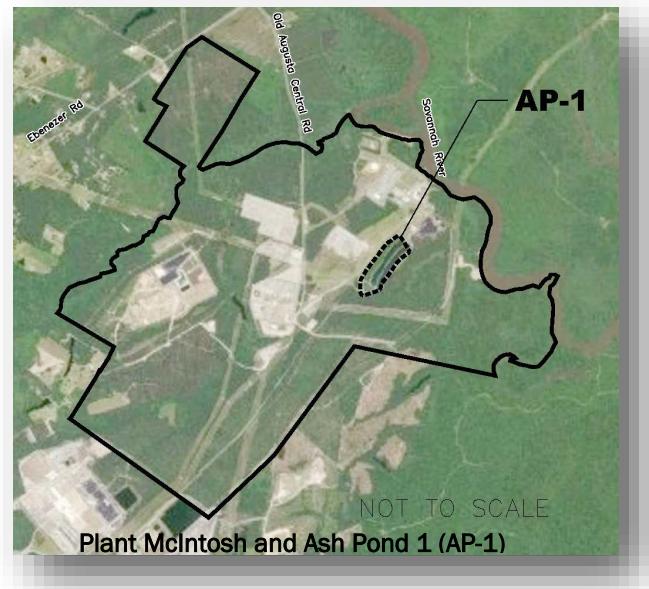
## SUMMARY

This summary of the *2023 Annual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from January through December 2023 for Georgia Power Company (Georgia Power) Plant McIntosh Ash Pond 1 (the Site or AP-1). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6<sup>1</sup> of the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant McIntosh is located at 981 Old Augusta Central Road, approximately 4 miles northeast of the City of Rincon, in Effingham County, Georgia. AP-1 is located on the eastern portion of the Plant McIntosh property. The Site has been closed by removal of CCR material.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began after background groundwater conditions were established between May 2016 and April 2017. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 15, 2018. An Alternate Source Demonstration (ASD) completed in January 2019 and a November 2019 supplement presented lines of evidence demonstrating that statistically significant levels (SSL) of cobalt and lithium in groundwater were not due to a release from the unit. The ASD and supplemental information were included in the 2018 and 2019 Annual Groundwater Monitoring and Corrective Action Reports, respectively. During this January through December 2023 annual reporting period, the Site remained in assessment monitoring. The Georgia Environmental Protection Division (EPD) approved the CCR permit (051-11D(CCR)) for the Site on February 6, 2020.

During the reporting period, ACC conducted semiannual sampling events in February 2023 and July 2023. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the CCR Rule, groundwater results for February 2023 and July 2023 data were evaluated in accordance with the certified statistical methods.



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

Those evaluations showed statistically significant levels of Appendix III<sup>2</sup> and Appendix IV<sup>3</sup> parameters in wells as summarized in the table below.

| Appendix III Parameter | February 2023                          | July 2023                              |
|------------------------|--|--|
| Boron                  | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 |
| Chloride               | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 |
| Calcium                |  | MGWC-3, MGWC-8                         |
| Fluoride               | MGWC-12                                | MGWC-7, MGWC-12                        |
| Sulfate                | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 |
| TDS                    | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8 |
| Appendix IV Parameter  | February 2023                          | July 2023                              |
| Cobalt                 | MGWC-7, MGWC-8                         | MGWC-7, MGWC-8                         |
| Lithium                | MGWC-7                                 | MGWC-7                                 |

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

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<sup>2</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

<sup>3</sup> Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

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## 1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2023 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power) Plant McIntosh Ash Pond 1 (the Site or AP-1). To specify groundwater monitoring requirements, Georgia 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.

A permit application to comply with Georgia EPD Rules was submitted in November 2018 and was approved in February 2020. Monitoring for the CCR Unit is performed in accordance with the permit monitoring requirements [Georgia EPD Permit No. 051-011D(CCR), 40 CFR § 257.90 through 257.91 and § 257.93 through 257.95 of the Federal CCR Rule, and the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a)].

This report documents activities completed for the groundwater monitoring program from January through December 2023 in accordance with 40 CFR § 257.90(e). This report includes results of the semiannual assessment monitoring events conducted in February 2023 and July 2023.

### 1.1 Site Description and Background

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately 4 miles northeast of the City of Rincon, and 20 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres (Figure 1, Site Location Map) west of the Savannah River. AP-1 is located on the eastern portion of the plant property.

All CCR material has been removed from Plant McIntosh AP-1. In a letter dated October 5, 2021, Georgia EPD acknowledged that all CCR removal activities had been completed at the Site. The Site has been graded and restored.

### 1.2 Regional Geology and Hydrogeologic Setting

Plant McIntosh is located in the Atlantic Coastal Plain Physiographic Province and situated on sediments that were deposited from the Cretaceous to Pleistocene periods. Regional lithology consists of stratified marine deposits and materials eroded from crystalline rock of the Piedmont Physiographic Province. Boring logs describe soils as interbedded clays, silts, and sands typical of Atlantic Coastal Plain sediments.

Monitoring wells and piezometers are screened in the surficial aquifer between approximately 30 and -20 feet North American Vertical Datum of 1988 (NAVD88). The predominant groundwater flow direction across Plant McIntosh is to the east.

### 1.3 Groundwater Monitoring System and CCR Unit Description

Pursuant to 40 CFR § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at AP-1. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. The former CCR Unit included four cells (Cell A through Cell D). Each of these cells have been closed by removal of CCR. CCR

removal has been certified as complete, and the area has been graded and restored. A figure depicting the cell layout is provided as Figure 2, CCR Removal Map. Figure 3, Well Location Map, shows the monitoring well locations. Wells were installed to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1A, Groundwater Monitoring Network Well Construction Details, and Table 1B, Assessment Well and Piezometer Construction Details).

## 2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from January through December 2023 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on Figure 3 in February 2023 and July 2023.

### 2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system during the annual reporting period depicted in Figure 3. The network remained the same as in the previous reporting year (2022). Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the Site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions. Well inspection checklists completed during the semiannual sampling events are included in Appendix A, Laboratory Analytical and Field Sampling Reports. Any issues identified in well inspection checklists are addressed prior to the next monitoring event.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (Official Code of Georgia Annotated § 12-5-134(5)(d)(vii)). In February 2023 and July 2023, monitoring wells were inspected, and no necessary corrective actions were identified as documented in Appendix A. Well inspections and corrective actions were performed under the direction of a professional geologist or engineer registered in the State of Georgia.

### 2.2 Assessment Monitoring

Based on results of the *2017 Annual Groundwater and Corrective Action Monitoring Report*, Georgia Power initiated an assessment monitoring program on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells were sampled for Appendix III and Appendix IV parameters in February 2023 and July 2023 as the first and second semiannual assessment monitoring events of 2023, respectively. Samples were collected from the monitoring network depicted on Figure 3. A summary of groundwater sampling events completed during the semiannual reporting period is provided in Table 2, Groundwater Sampling Event Summary. Results of sampling activities are presented in Appendix A.

### 2.3 Additional Sampling

Additional geochemical anion and cation data was collected during the February 2023 event for evaluation purposes only.

### 3.0 SAMPLE METHODOLOGY & ANALYSIS

The following subsections describe the methods used to conduct groundwater monitoring at the Site.

#### 3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from the certified well network and piezometers at the Site. Groundwater levels recorded during the monitoring events are summarized in Table 3, Summary of Groundwater Elevations. Groundwater levels and top of casing elevations were used to calculate groundwater elevations and develop the potentiometric surface elevation contour map provided in Figures 4A and 4B, Potentiometric Contour Map – February 2023 and July 2023, respectively. The general direction of groundwater flow across AP-1 is predominately toward the east. The groundwater flow patterns observed during the 2023 monitoring events are consistent with historical observations.

The horizontal groundwater flow velocity at the Site was calculated using a derivation of Darcy's Law.

Specifically:

##### Equation

$$v = \frac{K ( dh/dl )}{P_e} \quad \text{where:} \quad \begin{aligned} v &= \text{groundwater velocity} \\ K &= \text{hydraulic conductivity} \\ dh/dl &= \text{hydraulic gradient} \\ P_e &= \text{effective porosity} \end{aligned}$$

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on the default value for silty sands, US EPA, 1989). Groundwater flow velocities have been calculated and are tabulated on Tables 4A and 4B, Horizontal Groundwater Flow Velocity Calculations – February 2023 and July 2023, respectively. The calculated flow velocity was 0.039 feet per day during both the February 2023 and July 2023 events.

This calculated groundwater velocity across the Site is generally consistent with historical calculations and with expected velocities in the Site-specific geology, therefore confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

#### 3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using either a peristaltic pump or non-dedicated QED bladder pump. In all cases pump intakes were located at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations using as a guide the procedures described in the latest version of the Region 4 US EPA Lab Services and Applied Science Division (LSASD) Operating Procedure for Field Equipment Cleaning and Decontamination (US EPA, 2020).

An Aqua Troll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, specific conductance, oxidation-reduction potential [ORP], dissolved oxygen

[DO], and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidity meter. Groundwater samples were collected when the following stabilization criteria were met:

- $\pm 0.1$  standard units for pH
- $\pm 5\%$  for specific conductance
- $\pm 10\%$  or 0.2 milligrams per Liter (mg/L), whichever is greater, for DO where  $DO > 0.5$  mg/L. No criterion applies if  $DO < 0.5$  mg/L
- Turbidity measurements less than 5 nephelometric turbidity units (NTUs)

Once parameter stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins Environment Testing America (Eurofins) of Savannah, GA following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

### 3.3 Laboratory Analyses

Groundwater samples were collected during two groundwater monitoring events in the annual monitoring period. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix A.

Analytical data collected during the monitoring period are summarized in Tables 5A and 5B, Summary of Groundwater Analytical Data – February 2023 and July 2023, respectively. Additional geochemical analytical data collected during the February 2023 monitoring event are summarized in Table 5C, Summary of Groundwater Anion and Cation Data – February 2023.

Laboratory analyses were performed by Eurofins. Eurofins is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, Eurofins is certified to perform analysis by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring events are presented in Appendix A.

### 3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of at least one field blank and duplicate sample per every 20 detection samples. A set of QA/QC samples includes equipment blanks, field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were validated in accordance with US EPA guidance (US EPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spike/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. The validated data meet project objectives and the associated data validation reports are provided in Appendix A, along with the laboratory reports.

Values followed by a "J" flag on Tables 5A and 5B indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit. 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.

## 4.0 STATISTICAL ANALYSIS

Groundwater monitoring data collected during the February 2023 and July 2023 semiannual assessment monitoring events were statistically analyzed by Groundwater Stats Consulting, LLC pursuant to 40 CFR § 257.95 following the Professional Engineer-certified statistical method. Appendix III detection monitoring parameters were statistically analyzed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard (GWPS). Statistical analysis methods and results are provided in Appendix B, Statistical Analysis Reports. The following subsections and Table 6, Statistical Method Summary, provide an overview of the statistical method used to evaluate Appendix III and IV parameters and statistical analyses results.

### 4.1 Statistical Analysis Methods

The Sanitas groundwater statistical software was used to perform the 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 document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (US EPA, 2009).

#### 4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

In 1-of-2 verification resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the prediction limit, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not exceed the prediction limit, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

#### 4.1.2 Appendix IV Statistical Methods

Appendix IV constituents were sampled during the February 2023 and July 2023 semiannual assessment events. To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV parameters in each downgradient well. Those confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If there is an exceedance of the established standard, a statistically significant level (SSL) exceedance is identified.

US EPA revised the Federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. US EPA's updated GWPS were incorporated into Georgia EPD's CCR Rule 391-3-4-10(6)(a) on February 22, 2022. The CCR Rule GWPS is as follows:

- (1) The federally established maximum contaminant level (MCL) under 40 CFR § 141.62 and 141.66.

- (2) Where an MCL has not been established, the levels specified by the CCR Rule:
  - (i). Cobalt 0.006 mg/L;
  - (ii). Lead 0.015 mg/L;
  - (iii). Lithium 0.040 mg/L; and
  - (iv). Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL.

On February 22, 2022, Georgia EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established, except when site specific background concentrations of these constituents are higher. Statistical evaluations for the February 2023 and July 2023 events reflect these changes.

Following the above rule requirements, GWPS have been established for statistical comparison of Appendix IV constituents. Table 7, Summary of Background Levels and Groundwater Protection Standards – February 2023 & July 2023, summarizes the background limit established for each constituent and the GWPS.

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A substitution of the most recent reporting limit is used for non-detect data. Additional details are presented in the Statistical Analyses provided in Appendix B.

## 4.2 Statistical Analysis Results

### 4.2.1 Semiannual Appendix III Statistical Results

Based on review of the Appendix III statistical analysis presented in Appendix B, Appendix III constituents have not returned to background levels. Exceedances were noted and are presented on the prediction limit summary tables included in Appendix B. Assessment monitoring should continue pursuant to 40 CFR § 257.95(f).

### 4.2.2 Semiannual Appendix IV Statistical Results

Based on review of the Appendix IV statistical analyses presented in Appendix B, the following parameters were found to exceed the GWPS during the February 2023 and July 2023 sampling events:

- Cobalt: MGWC-7 and MGWC-8
- Lithium: MGWC-7

Concentrations of cobalt in all wells have been below the GWPS during this annual reporting period.

## 5.0 ALTERNATE SOURCE DEMONSTRATION

In accordance with 40 CFR § 257.94(e), Georgia Power implemented assessment monitoring in May 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Site during the sampling events conducted in February 2023 and July 2023. An Alternate Source Demonstration (ASD) for cobalt and lithium was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report*, and later supported by the *Supplemental Information for the Ash Pond 1 Alternate Source Demonstration*, dated November 21, 2019. The

demonstration showed the source of cobalt and lithium in groundwater is not due to a release from the unit. The Site remains in assessment monitoring due to SSIs for Appendix III parameters.

## 6.0 MONITORING PROGRAM STATUS

In accordance with 40 CFR § 257.94(e), Georgia Power implemented assessment monitoring in May 2018. Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through December 2023, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site.

## 7.0 CONCLUSIONS & FUTURE ACTIONS

This 2023 Annual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McIntosh AP-1 was prepared to fulfill the requirements of US EPA's CCR Rule and Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-10.

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix III groundwater monitoring parameters and SSLs of cobalt and lithium. In accordance with 40 CFR § 257.95(g)(3), Georgia Power prepared an ASD for cobalt and lithium in 2018 that concludes the state and federal SSLs for cobalt and lithium are not due to a release from the unit. Concentrations of cobalt in all wells have been below the GWPS during this annual reporting period.

Based on the findings presented, AP-1 will remain in assessment monitoring. The next semiannual assessment monitoring event is currently scheduled for February 2024.

## 8.0 REFERENCES

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- US EPA, 2020. Field Equipment Cleaning and Decontamination – Operating Procedure: LSASDPROC-205-R4, Athens, Georgia, 16 p.
- US EPA, 2023. Groundwater Sampling – Operating Procedure: LSASDPROC-301-R6, Athens, Georgia, 36 p.

## TABLES

**Table 1A**  
**Groundwater Monitoring Network Well Construction Details**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Well    | Installation Date (mm/dd/yyyy) | Northing  | Easting   | Top of Casing Elevation (NAVD88) | Bottom Depth (ft BTOC) | Bottom Elevation (NAVD88) | Depth to Top of Screen (ft BTOC) | Top of Screen Elevation (NAVD88) | Purpose                |
|---------|--------------------------------|-----------|-----------|----------------------------------|------------------------|---------------------------|----------------------------------|----------------------------------|------------------------|
| MGWC-1  | 11/10/2015                     | 856813.08 | 964287.47 | 65.26                            | 56.08                  | 9.18                      | 45.78                            | 19.48                            | Downgradient Detection |
| MGWC-2  | 11/11/2015                     | 856400.69 | 963958.38 | 48.54                            | 37.36                  | 11.18                     | 27.06                            | 21.48                            | Downgradient Detection |
| MGWC-3  | 11/11/2015                     | 856033.79 | 963658.28 | 52.65                            | 38.74                  | 13.91                     | 28.44                            | 24.21                            | Downgradient Detection |
| MGWA-5  | 11/12/2015                     | 855860.82 | 962763.17 | 64.36                            | 63.09                  | 1.27                      | 52.79                            | 11.57                            | Upgradient Detection   |
| MGWA-6  | 11/12/2015                     | 856527.73 | 963130.08 | 61.08                            | 41.93                  | 19.15                     | 31.63                            | 29.45                            | Upgradient Detection   |
| MGWA-6A | 01/16/2019                     | 856520.82 | 963113.65 | 59.76                            | 39.67                  | 20.09                     | 29.40                            | 30.36                            | Upgradient Detection   |
| MGWC-7  | 11/13/2015                     | 857417.68 | 964007.53 | 54.40                            | 42.29                  | 12.11                     | 31.99                            | 22.41                            | Downgradient Detection |
| MGWC-8  | 11/10/2015                     | 857177.10 | 964141.67 | 62.61                            | 52.56                  | 10.05                     | 42.26                            | 20.35                            | Downgradient Detection |
| MGWA-10 | 11/17/2015                     | 855934.25 | 961406.49 | 65.07                            | 53.09                  | 11.98                     | 42.79                            | 22.28                            | Upgradient Detection   |
| MGWA-11 | 05/27/2016                     | 855985.31 | 962070.22 | 64.91                            | 55.81                  | 9.10                      | 45.61                            | 19.30                            | Upgradient Detection   |
| MGWC-12 | 05/26/2016                     | 855545.67 | 963110.24 | 64.10                            | 52.90                  | 11.20                     | 42.70                            | 21.40                            | Downgradient Detection |

Notes:

1. Northings and Eastings are Georgia State Plane East Zone in feet relative to North American Datum 1983 (NAD83).
2. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
3. ft BTOC indicates feet below top of casing.

**Table 1B**  
**Assessment Well and Piezometer Construction Details**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Well    | Installation Date (mm/dd/yyyy) | Northing  | Easting   | Top of Casing Elevation (NAVD88) | Bottom Depth (ft BTOC) | Bottom Elevation (NAVD88) | Depth to Top of Screen (ft BTOC) | Top of Screen Elevation (NAVD88) | Purpose         |
|---------|--------------------------------|-----------|-----------|----------------------------------|------------------------|---------------------------|----------------------------------|----------------------------------|-----------------|
| MGWC-4  | 11/18/2015                     | 855555.05 | 963139.37 | 64.33                            | 67.35                  | -3.02                     | 57.05                            | 7.28                             | Piezometer      |
| MGWA-9  | 11/17/2015                     | 857129.70 | 963164.58 | 59.29                            | 43.05                  | 16.24                     | 32.75                            | 26.54                            | Piezometer      |
| PZ-13   | 06/03/2016                     | 856123.86 | 964192.52 | 40.91                            | 26.76                  | 14.15                     | 16.36                            | 24.55                            | Piezometer      |
| PZ-14   | 06/04/2016                     | 855727.20 | 963895.98 | 47.11                            | 41.50                  | 5.61                      | 31.10                            | 16.01                            | Piezometer      |
| PZ-15   | 06/26/2018                     | 856156.03 | 964192.45 | 42.37                            | 28.87                  | 13.50                     | 18.57                            | 23.80                            | Piezometer      |
| PZ-16   | 06/26/2018                     | 857077.14 | 964957.28 | 54.71                            | 42.39                  | 12.32                     | 32.09                            | 22.62                            | Piezometer      |
| PZ-17   | 06/27/2018                     | 857655.05 | 964525.72 | 57.51                            | 45.12                  | 12.39                     | 34.82                            | 22.69                            | Piezometer      |
| PZ-18   | 06/27/2018                     | 857542.34 | 963505.91 | 53.48                            | 41.70                  | 11.78                     | 31.40                            | 22.08                            | Piezometer      |
| MGWC-19 | 10/04/2018                     | 857406.16 | 963972.44 | 53.98                            | 72.70                  | -18.72                    | 62.40                            | -8.42                            | Deep Piezometer |
| MGWC-20 | 10/03/2018                     | 857596.86 | 964281.59 | 51.56                            | 54.77                  | -3.21                     | 44.47                            | 7.09                             | Assessment      |
| MGWC-21 | 11/28/2018                     | 857159.04 | 964155.30 | 62.65                            | 82.68                  | -20.03                    | 72.38                            | -9.73                            | Deep Piezometer |
| MGWC-22 | 11/29/2018                     | 856381.60 | 963948.23 | 47.53                            | 67.56                  | -20.03                    | 57.26                            | -9.73                            | Deep Piezometer |
| MGWC-23 | 11/30/2018                     | 856940.45 | 964617.96 | 57.47                            | 42.90                  | 14.57                     | 32.60                            | 24.87                            | Assessment      |
| MGWA-24 | 01/17/2019                     | 856600.28 | 962885.22 | 60.53                            | 47.00                  | 13.53                     | 35.80                            | 24.73                            | Piezometer      |

Notes:

1. Northings and Eastings are Georgia State Plane East Zone in feet relative to North American Datum 1983 (NAD83).
2. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
3. ft BTOC indicates feet below top of casing.

**Table 2**  
**Groundwater Sampling Event Summary**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Well                             | Hydraulic Location | Feb. 7-8,<br>2023     | Aug. 1-2,<br>2023     |
|----------------------------------|--------------------|-----------------------|-----------------------|
| <b>Purpose of Sampling Event</b> |                    | Semiannual Assessment | Semiannual Assessment |
| MGWC-1                           | Downgradient       | X                     | X                     |
| MGWC-2                           | Downgradient       | X                     | X                     |
| MGWC-3                           | Downgradient       | X                     | X                     |
| MGWA-5                           | Upgradient         | X                     | X                     |
| MGWA-6                           | Upgradient         | X                     | X                     |
| MGWA-6A                          | Upgradient         | X                     | X                     |
| MGWC-7                           | Downgradient       | X                     | X                     |
| MGWC-8                           | Downgradient       | X                     | X                     |
| MGWA-10                          | Upgradient         | X                     | X                     |
| MGWA-11                          | Upgradient         | X                     | X                     |
| MGWC-12                          | Downgradient       | X                     | X                     |

Notes:

1. X indicates sample was collected.
2. Semiannual Assessment Event included Appendix III and Appendix IV.

**Table 3**  
**Summary of Groundwater Elevations**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Well ID | Top of Casing Elevation (NAVD88) | Feb. 6, 2023 Groundwater Elevation (NAVD88) | July 31, 2023 Groundwater Elevation (NAVD88) |
|---------|----------------------------------|---|--|
| MGWC-1  | 65.26                            | 24.99                                       | 24.68  |
| MGWC-2  | 48.54                            | 26.72                                       | 25.74  |
| MGWC-3  | 52.65                            | 31.39                                       | 31.09  |
| MGWC-4  | 64.33                            | 35.41                                       | 35.24  |
| MGWA-5  | 64.36                            | 38.89                                       | 38.53  |
| MGWA-6  | 61.08                            | 36.36                                       | 36.35  |
| MGWA-6A | 59.76                            | 36.42                                       | 36.41  |
| MGWC-7  | 54.40                            | 29.57                                       | 29.53  |
| MGWC-8  | 62.61                            | 27.71                                       | 27.49  |
| MGWA-9  | 59.29                            | 35.43                                       | 34.98  |
| MGWA-10 | 65.07                            | 46.56                                       | 44.96  |
| MGWA-11 | 64.91                            | 42.03                                       | 41.26  |
| MGWC-12 | 64.10                            | 35.54                                       | 35.38  |
| PZ-13   | 40.91                            | 23.28                                       | 22.11  |
| PZ-14   | 47.11                            | 27.97                                       | 27.42  |
| PZ-15   | 42.37                            | 23.27                                       | 22.12  |
| PZ-16   | 54.71                            | 20.84                                       | 20.56  |
| PZ-17   | 57.51                            | 24.17                                       | 23.98  |
| PZ-18   | 53.48                            | 32.39                                       | 31.09  |
| MGWC-19 | 53.98                            | 28.96                                       | 28.51  |
| MGWC-20 | 51.56                            | 26.78                                       | 26.45  |
| MGWC-21 | 62.65                            | 27.52                                       | 27.13  |
| MGWC-22 | 47.53                            | 27.50                                       | 26.95  |
| MGWC-23 | 57.47                            | 22.44                                       | 22.19  |
| MGWA-24 | 60.53                            | 37.77                                       | 37.67  |

Notes:

1. NAVD88 indicates feet relative to North American Vertical Datum of 1988.

**Table 4A**  
**Horizontal Groundwater Flow Velocity Calculations**  
**February 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

Equation

$$v = \frac{K ( dh/dl )}{P_e} \quad \text{where: } v = \text{groundwater velocity}$$

K = hydraulic conductivity  
 dh/dl = hydraulic gradient  
 $P_e$  = effective porosity

Values Used in Calculation

| Value                                     | Source   |
|---|--|
| K = 3.39E-04<br>0.962                     | cm/sec<br>ft/day<br>See note 1.                                  |
| dh/dl <sub>1</sub> = 23.29/2796<br>0.0083 | ft/ft<br>unitless<br>Hydraulic gradient from<br>MGWA-10 to PZ-15 |
| dh/dl <sub>2</sub> = 15.52/1898<br>0.0082 | ft/ft<br>unitless<br>MGWA-6 to PZ-16                             |
| dh/dl <sub>3</sub> = 11.26/1458<br>0.0077 | ft/ft<br>unitless<br>MGWA-9 to PZ-17                             |
| dh/dl <sub>avg</sub> = 0.0081             | unitless<br>Average of dh/dl <sub>1,2,3</sub>                    |
| P <sub>e</sub> = 0.20                     | unitless<br>See note 2.  |

Calculated Flow Velocity

$$v = \frac{(0.962)(0.0081)}{0.20}$$

$$v = 0.039 \text{ ft/day, or } 14.2 \text{ ft/year}$$

Notes

- (1) Aquifer tests from Hydrogeologic Assessment Report (Revision 01), Plant McIntosh Ash Pond 1 (AP 1) November 2018, Revised December 2019.
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

**Table 4B**  
**Horizontal Groundwater Flow Velocity Calculations**  
**July 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

Equation

$$v = \frac{K ( dh/dl )}{P_e} \quad \text{where: } v = \text{groundwater velocity}$$

K = hydraulic conductivity  
 dh/dl = hydraulic gradient  
 P<sub>e</sub> = effective porosity

Values Used in Calculation

| Value                                     | Source   |
|---|--|
| K = 3.39E-04<br>0.962                     | cm/sec<br>ft/day<br>See note 1.                                  |
| dh/dl <sub>1</sub> = 22.84/2796<br>0.0082 | ft/ft<br>unitless<br>Hydraulic gradient from<br>MGWA-10 to PZ-15 |
| dh/dl <sub>2</sub> = 15.79/1898<br>0.0083 | ft/ft<br>unitless<br>MGWA-6 to PZ-16                             |
| dh/dl <sub>3</sub> = 11/1458<br>0.0075    | ft/ft<br>unitless<br>MGWA-9 to PZ-17                             |
| dh/dl <sub>avg</sub> = 0.0080             | unitless<br>Average of dh/dl <sub>1,2,3</sub>                    |
| P <sub>e</sub> = 0.20                     | unitless<br>See note 2.  |

Calculated Flow Velocity

$$v = \frac{(0.962)(0.008)}{0.20}$$

$$v = 0.039 \text{ ft/day, or } 14 \text{ ft/year}$$

Notes

(1) Aquifer tests from Hydrogeologic Assessment Report (Revision 01), Plant McIntosh Ash Pond 1 (AP 1) November 2018, Revised December 2019.

(2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

**Table 5A**  
**Summary of Groundwater Analytical Data**  
**February 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Substance    |                       | Well ID   |           |           |           |           |           |           |           |
|--------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              |                       | MGWC-1    | MGWC-2    | MGWC-3    | MGWA-5    | MGWA-6    | MGWA-6A   | MGWC-7    | MGWC-8    |
|              |                       | 2/8/2023  | 2/8/2023  | 2/7/2023  | 2/7/2023  | 2/7/2023  | 2/7/2023  | 2/8/2023  | 2/8/2023  |
| APPENDIX III | Boron                 | 1.5       | 1.8       | 0.63      | 0.022 J   | 0.028 J   | 0.039 J   | 2.1       | 3.9       |
|              | Calcium               | 110       | 100       | 110       | 26        | 110       | 99        | 65        | 110       |
|              | Chloride              | 12        | 11        | 11        | 4.7       | 3.1       | 3.2       | 11        | 13        |
|              | Fluoride              | 0.11      | 0.074 J   | 0.076 J   | 0.069 J   | 0.060 J   | 0.064 J   | 0.14      | 0.084 J   |
|              | pH                    | 7.28      | 7.44      | 7.01      | 7.85      | 7.13      | 7.24      | 7.43      | 6.76      |
|              | Sulfate               | 140       | 150       | 120       | 2.5       | 2.3       | 1.6       | 220       | 280       |
|              | TDS                   | 400       | 440       | 410       | 150       | 290       | 260       | 370       | 480       |
| APPENDIX IV  | Antimony              | <0.00034  | <0.00034  | <0.00034  | <0.00034  | <0.00034  | <0.00034  | 0.00051 J | <0.00034  |
|              | Arsenic               | 0.0016    | <0.00086  | 0.0018    | <0.00086  | 0.011     | 0.013     | <0.00086  | 0.0010    |
|              | Barium                | 0.10      | 0.044     | 0.16      | 0.028     | 0.030     | 0.032     | 0.020     | 0.052     |
|              | Beryllium             | <0.00020  | <0.00020  | <0.00020  | <0.00020  | <0.00020  | <0.00020  | <0.00020  | 0.00020 J |
|              | Cadmium               | 0.00012 J | 0.0021 J  | <0.000078 | <0.000078 | <0.000078 | <0.000078 | <0.000078 | 0.0018 J  |
|              | Chromium              | 0.0014 J  | <0.0012   | <0.0012   | <0.0012   | <0.0012   | <0.0012   | 0.0013 J  | 0.0013 J  |
|              | Cobalt                | <0.00022  | 0.0012 J  | 0.0025    | <0.00022  | 0.00023 J | 0.00069 J | 0.0044    | 0.0019 J  |
|              | Fluoride              | 0.11      | 0.074 J   | 0.076 J   | 0.069 J   | 0.060 J   | 0.064 J   | 0.14      | 0.084 J   |
|              | Lead                  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  |
|              | Lithium               | 0.010     | 0.0065    | 0.014     | 0.011     | <0.0020   | <0.0020   | 0.14      | 0.012     |
|              | Mercury               | <0.000080 | <0.000080 | <0.000080 | <0.000080 | <0.000080 | <0.000080 | <0.000080 | 0.00026   |
|              | Molybdenum            | 0.0012 J  | <0.00086  | <0.00086  | <0.00086  | <0.00086  | <0.00086  | <0.00086  | <0.00086  |
|              | Radium<br>(226 + 228) | 1.77      | 0.799     | 2.14      | 0.0887 U  | 0.487 U   | 0.701     | 1.88      | 1.11      |
|              | Selenium              | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  |
|              | Thallium              | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  |

Notes:

- Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
- Radium data are for Radium 226 & Radium 228 (combined).
- < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
- 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 (value J) is qualified by the laboratory as an estimated number.
- TDS indicates total dissolved solids.
- U indicates the substance was detected below the Minimum Detectable Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant McIntosh Ash Pond 1

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**Table 5A**  
**Summary of Groundwater Analytical Data**  
**February 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Substance           | Well ID               |           |           |           |
|---------------------|-----------------------|-----------|-----------|-----------|
|                     | MGWA-10               | MGWA-11   | MGWC-12   |           |
|                     | 2/7/2023              | 2/7/2023  | 2/7/2023  |           |
| <b>APPENDIX III</b> | Boron                 | <0.022    | 0.028 J   | 0.067 J   |
|                     | Calcium               | 3.6       | 34        | 30        |
|                     | Chloride              | 7.0       | 4.2       | 4.2       |
|                     | Fluoride              | <0.040    | 0.070 J   | 0.25      |
|                     | pH                    | 5.46      | 7.72      | 6.95      |
|                     | Sulfate               | <0.40     | 3.3       | 4.7       |
|                     | TDS                   | 61        | 190       | 190       |
| <b>APPENDIX IV</b>  | Antimony              | <0.00034  | <0.00034  | <0.00034  |
|                     | Arsenic               | <0.00086  | 0.0025    | 0.00098 J |
|                     | Barium                | 0.021     | 0.10      | 0.060     |
|                     | Beryllium             | <0.00020  | <0.00020  | <0.00020  |
|                     | Cadmium               | <0.000078 | <0.000078 | <0.000078 |
|                     | Chromium              | 0.0053    | <0.0012   | 0.0012 J  |
|                     | Cobalt                | <0.00022  | <0.00022  | <0.00022  |
|                     | Fluoride              | <0.040    | 0.070 J   | 0.25      |
|                     | Lead                  | <0.00021  | <0.00021  | <0.00021  |
|                     | Lithium               | 0.0081    | 0.022     | 0.024     |
|                     | Mercury               | <0.000080 | <0.000080 | <0.000080 |
|                     | Molybdenum            | <0.00086  | 0.00098 J | <0.00086  |
|                     | Radium<br>(226 + 228) | 0.671     | 0.858     | 0.849     |
|                     | Selenium              | <0.00099  | <0.00099  | <0.00099  |
|                     | Thallium              | <0.00026  | <0.00026  | <0.00026  |

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detectable Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant McIntosh Ash Pond 1

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**Table 5B**  
**Summary of Groundwater Analytical Data**  
**July 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Substance    |                       | Well ID   |           |           |           |           |           |           |           |
|--------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              |                       | MGWC-1    | MGWC-2    | MGWC-3    | MGWA-5    | MGWA-6    | MGWA-6A   | MGWC-7    | MGWC-8    |
|              |                       | 8/1/2023  | 8/2/2023  | 8/1/2023  | 8/1/2023  | 8/1/2023  | 8/1/2023  | 8/2/2023  | 8/1/2023  |
| APPENDIX III | Boron                 | 1.6       | 1.8       | 0.65      | 0.037 J   | 0.057 J   | 0.038 J   | 2.2       | 4.3       |
|              | Calcium               | 110       | 100       | 120       | 28        | 110       | 110       | 57        | 120       |
|              | Chloride              | 13        | 12        | 12        | 5.2       | 3.3       | 3.4       | 11        | 13        |
|              | Fluoride              | 0.15      | 0.087 J   | 0.10      | 0.094 J   | 0.084 J   | 0.081 J   | 0.20      | 0.11      |
|              | pH                    | 7.30      | 7.31      | 7.09      | 7.52      | 7.14      | 7.20      | 6.90      | 6.77      |
|              | Sulfate               | 140       | 150       | 110       | 2.9       | 3.2       | 4.0       | 200       | 280       |
|              | TDS                   | 450       | 520       | 420       | 170       | 330       | 360       | 410       | 570       |
| APPENDIX IV  | Antimony              | <0.00034  | <0.00034  | <0.00034  | <0.00034  | <0.00034  | <0.00034  | <0.00034  | <0.00034  |
|              | Arsenic               | 0.0012    | <0.00086  | 0.0017    | <0.00086  | 0.010     | 0.0046    | <0.00086  | 0.00098 J |
|              | Barium                | 0.10      | 0.040     | 0.16      | 0.037     | 0.029     | 0.029     | 0.015     | 0.056     |
|              | Beryllium             | <0.00020  | <0.00020  | <0.00020  | <0.00020  | <0.00020  | <0.00020  | <0.00020  | 0.00025 J |
|              | Cadmium               | <0.000078 | 0.00032 J | <0.000078 | <0.000078 | <0.000078 | <0.000078 | 0.00031 J | 0.0020 J  |
|              | Chromium              | <0.0012   | <0.0012   | <0.0012   | <0.0012   | <0.0012   | <0.0012   | <0.0012   | <0.0012   |
|              | Cobalt                | <0.00022  | 0.0011 J  | 0.00054 J | <0.00022  | <0.00022  | 0.00045 J | 0.0031    | 0.0015 J  |
|              | Fluoride              | 0.15      | 0.087 J   | 0.10      | 0.094 J   | 0.084 J   | 0.081 J   | 0.20      | 0.11      |
|              | Lead                  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  | <0.00021  |
|              | Lithium               | 0.0084    | 0.0031 J  | 0.011     | 0.0077    | <0.0020   | <0.0020   | 0.13      | 0.012     |
|              | Mercury               | <0.000080 | <0.000080 | <0.000080 | <0.000080 | <0.000080 | <0.000080 | <0.000080 | 0.00014 J |
|              | Molybdenum            | 0.0012 J  | <0.00086  | <0.00086  | <0.00086  | <0.00086  | 0.0014 J  | <0.00086  | <0.00086  |
|              | Radium<br>(226 + 228) | 1.61      | 1.09      | 2.07      | 0.982     | 1.27      | 1.44      | 1.46      | 0.872     |
|              | Selenium              | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  | <0.00099  |
|              | Thallium              | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  | <0.00026  |

Notes:

- Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
- Radium data are for Radium 226 & Radium 228 (combined).
- < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
- 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 (value J) is qualified by the laboratory as an estimated number.
- TDS indicates total dissolved solids.
- U indicates the substance was detected below the Minimum Detectable Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

**Table 5B**  
**Summary of Groundwater Analytical Data**  
**July 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Substance    | Well ID               |           |           |           |
|--------------|-----------------------|-----------|-----------|-----------|
|              | MGWA-10               | MGWA-11   | MGWC-12   |           |
|              | 8/1/2023              | 8/1/2023  | 8/2/2023  |           |
| APPENDIX III | Boron                 | 0.035 J   | 0.045 J   | 0.062 J   |
|              | Calcium               | 3.9       | 39        | 31        |
|              | Chloride              | 7.4       | 3.3       | 4.5       |
|              | Fluoride              | <0.040    | 0.094 J   | 0.25      |
|              | pH                    | 5.46      | 7.61      | 7.20      |
|              | Sulfate               | 0.56 J    | 1.0       | 4.6       |
|              | TDS                   | 57        | 300       | 200       |
| APPENDIX IV  | Antimony              | <0.00034  | <0.00034  | <0.00034  |
|              | Arsenic               | <0.00086  | 0.0025    | <0.00086  |
|              | Barium                | 0.021     | 0.12      | 0.055     |
|              | Beryllium             | <0.00020  | <0.00020  | <0.00020  |
|              | Cadmium               | <0.000078 | <0.000078 | <0.000078 |
|              | Chromium              | 0.0044    | <0.0012   | <0.0012   |
|              | Cobalt                | <0.00022  | <0.00022  | <0.00022  |
|              | Fluoride              | <0.040    | 0.094 J   | 0.25      |
|              | Lead                  | <0.00021  | <0.00021  | <0.00021  |
|              | Lithium               | 0.0053    | 0.024     | 0.019     |
|              | Mercury               | <0.000080 | <0.000080 | <0.000080 |
|              | Molybdenum            | <0.00086  | <0.00086  | <0.00086  |
|              | Radium<br>(226 + 228) | 0.546 U   | 1.87      | 0.432 U   |
|              | Selenium              | <0.00099  | <0.00099  | <0.00099  |
|              | Thallium              | <0.00026  | <0.00026  | <0.00026  |

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (S.U.). Radium results are reported in picocuries per liter (pCi/L).
2. Radium data are for Radium 226 & Radium 228 (combined).
3. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
4. J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
5. TDS indicates total dissolved solids.
6. U indicates the substance was detected below the Minimum Detectable Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
7. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Plant McIntosh Ash Pond 1

2023 Annual Groundwater Monitoring and Corrective Action Report  
 ACC Project I054-117

**Table 5C**  
**Summary of Groundwater Anion and Cation Data**  
**February 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Substance              |                        | Well ID  |          |          |          |          |          |          |          |
|------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                        |                        | MGWC-1   | MGWC-2   | MGWC-3   | MGWA-5   | MGWA-6   | MGWA-6A  | MGWC-7   | MGWC-8   |
|                        |                        | 2/8/2023 | 2/8/2023 | 2/7/2023 | 2/7/2023 | 2/7/2023 | 2/7/2023 | 2/8/2023 | 2/8/2023 |
| Anions                 | Alkalinity             | 190      | 220      | 210      | 110      | 280      | 260      | 49       | 95       |
|                        | Bicarbonate Alkalinity | 190      | 220      | 210      | 110      | 280      | 260      | 49       | 95       |
|                        | Carbonate Alkalinity   | <5.0     | <5.0     | <5.0     | <5.0     | <5.0     | <5.0     | <5.0     | <5.0     |
|                        | Chloride               | 12       | 11       | 11       | 4.7      | 3.1      | 3.2      | 11       | 13       |
|                        | Sulfate                | 140      | 150      | 120      | 2.5      | 2.3      | 1.6      | 220      | 280      |
| Cations                | Calcium                | 110      | 100      | 110      | 26       | 110      | 99       | 65       | 110      |
|                        | Magnesium              | 5.8      | 17       | 5.5      | 11       | 2.6      | 2.6      | 6.8      | 19       |
|                        | Potassium              | 2.0      | 2.0      | 1.6      | 1.1      | 0.68     | 0.61     | 3.3      | 2.8      |
|                        | Sodium                 | 20       | 31       | 16       | 6.8      | 4.5      | 4.3      | 43       | 26       |
| Total Dissolved Solids |                        | 400      | 440      | 410      | 150      | 290      | 260      | 370      | 480      |

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).

2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).

**Table 5C**  
**Summary of Groundwater Anion and Cation Data**  
**February 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Substance |                        | Well ID  |          |          |
|-----------|------------------------|----------|----------|----------|
|           |                        | MGWA-10  | MGWA-11  | MGWC-12  |
|           |                        | 2/7/2023 | 2/7/2023 | 2/7/2023 |
| Anions    | Alkalinity             | 16       | 140      | 140      |
|           | Bicarbonate Alkalinity | 16       | 140      | 140      |
|           | Carbonate Alkalinity   | <5.0     | <5.0     | <5.0     |
|           | Chloride               | 7.0      | 4.2      | 4.2      |
|           | Sulfate                | <0.40    | 3.3      | 4.7      |
| Cations   | Calcium                | 3.6      | 34       | 30       |
|           | Magnesium              | 1.1      | 10       | 12       |
|           | Potassium              | 1.1      | 1.9      | 1.9      |
|           | Sodium                 | 6.3      | 9.5      | 13       |
|           | Total Dissolved Solids | 61       | 190      | 190      |

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).

**Table 6**  
**Statistical Method Summary**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Plant McIntosh AP-1 Statistical Method Summary |  |  |
|--|--|--|
| Monitoring Well Network                        | Upgradient Wells                       | MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11  |
|  | Downgradient Wells                     | MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12  |
| CCR Monitoring Parameters                      | Appendix III<br>(Detection Monitoring) | Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids (TDS)  |
|  | Appendix IV<br>(Assessment Monitoring) | Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium |
| Statistical Methodology                        | Data Screening Proposed Background     | Evaluate outliers, trends, and seasonality when sufficient data are available  |
|  | Statistical Limits                     | Interwell statistical limits   |

**Table 7**  
**Summary of Background Levels and Groundwater Protection Standards –**  
**February 2023 & July 2023**  
**Plant McIntosh Ash Pond 1**  
**Effingham County, Georgia**

| Constituent      | Site Background | CCR-Rule Specified GWPS | MCL   | GWPS  |
|------------------|-----------------|-------------------------|-------|-------|
| Antimony         | 0.002           | n/a                     | 0.006 | 0.006 |
| Arsenic          | 0.014           | n/a                     | 0.01  | 0.014 |
| Barium           | 0.13            | n/a                     | 2     | 2     |
| Beryllium        | 0.0025          | n/a                     | 0.004 | 0.004 |
| Cadmium          | 0.0025          | n/a                     | 0.005 | 0.005 |
| Chromium         | 0.0063          | n/a                     | 0.1   | 0.1   |
| Cobalt           | 0.0025          | 0.006                   | n/a   | 0.006 |
| Fluoride         | 0.19            | n/a                     | 4     | 4     |
| Lead             | 0.001           | 0.015                   | n/a   | 0.015 |
| Lithium          | 0.03            | 0.04                    | n/a   | 0.04  |
| Mercury          | 0.0002          | n/a                     | 0.002 | 0.002 |
| Molybdenum       | 0.015           | 0.1                     | n/a   | 0.1   |
| Radium (226+228) | 1.23            | n/a                     | 5     | 5     |
| Selenium         | 0.005           | n/a                     | 0.05  | 0.05  |
| Thallium         | 0.001           | n/a                     | 0.002 | 0.002 |

Notes:

1. Site Background = Tolerance limits calculated from pooled upgradient well data.
2. MCL = Maximum Contaminant Level, per Georgia EPD Rule 391-3-5-.18(1)(a).
3. GWPS = Groundwater protection standard, per Georgia EPD Rule 391-3-4-.10(6)(a).
4. CCR-Rule specified GWPS as stipulated in 40 CFR 257.95(h)(1-3) and incorporated into Georgia EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022.
5. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter.
6. n/a = not applicable. There is no established MCL, per Georgia EPD Rule 391-3-5-.18(1)(a).

## FIGURES

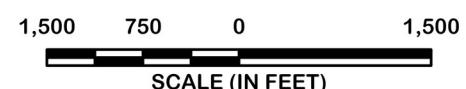
**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- - APPROXIMATE AP-1 BOUNDARY

**NOTES:**

1. AERIAL DATED JULY 17, 2023, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED FROM 2019 THROUGH 2021.

N



1,500 750 0 1,500  
SCALE (IN FEET)

  
ATLANTIC COAST  
CONSULTING, INC.2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT

**LEGEND**

- APPROXIMATE AP-1 BOUNDARY
-  AREA WHERE ASH REMOVAL WAS CERTIFIED COMPLETE BY GA EPD (OCTOBER 6, 2021)
-  DETECTION WELL
-  ASSESSMENT WELL
-  PIEZOMETER

**NOTES:**

1. AERIAL DATED JULY 17, 2023, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED APRIL 15, 2023.
2. CELL BOUNDARY LAYERS PROVIDED BY GEI CONSULTANTS.



350 175 0 350  
SCALE (IN FEET)

  
ATLANTIC COAST  
CONSULTING, INC.

2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT

**LEGEND**

- APPROXIMATE AP-1 BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

**NOTES:**

1. AERIAL DATED JULY 17, 2023, PROVIDED BY SAM, LLC.  
ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED APRIL 15, 2023.



350 175 0 350  
SCALE (IN FEET)

  
ATLANTIC COAST  
CONSULTING, INC.

2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT

**LEGEND**

- APPROXIMATE AP-1 BOUNDARY
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- DETECTION WELL
- ASSESSMENT WELL
- ◆ PIEZOMETER

**NOTES:**

1. AERIAL DATED JANUARY 2023 FROM SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED APRIL 15, 2023.
2. \* = ELEVATIONS FOR MGWC-19, MGWC-21, AND MGWC-22 ARE NOT USED TO CALCULATE POTENIOMETRIC CONTOURS.

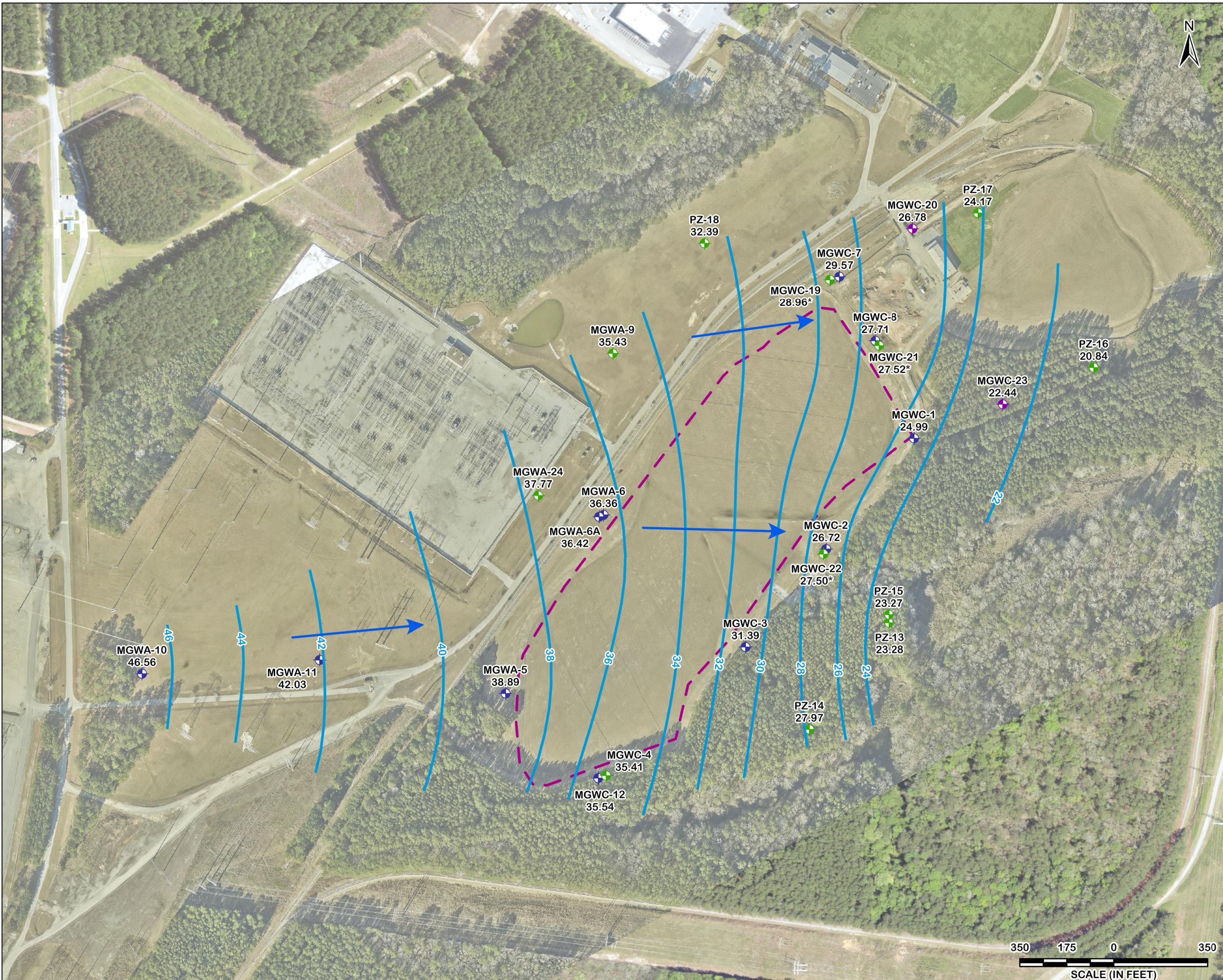


*AC*  
ATLANTIC COAST  
CONSULTING, INC.

2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT

POTENIOMETRIC CONTOUR MAP  
FEBRUARY 2023

FIGURE  
4A



**LEGEND**

- APPROXIMATE AP-1 BOUNDARY
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

**NOTES:**

1. AERIAL DATED JULY 17, 2023, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED APRIL 15, 2023.
2. \* = ELEVATIONS FOR MGWC-19, MGWC-21, AND MGWC-22 ARE NOT USED TO CALCULATE POTENIOMETRIC CONTOURS.

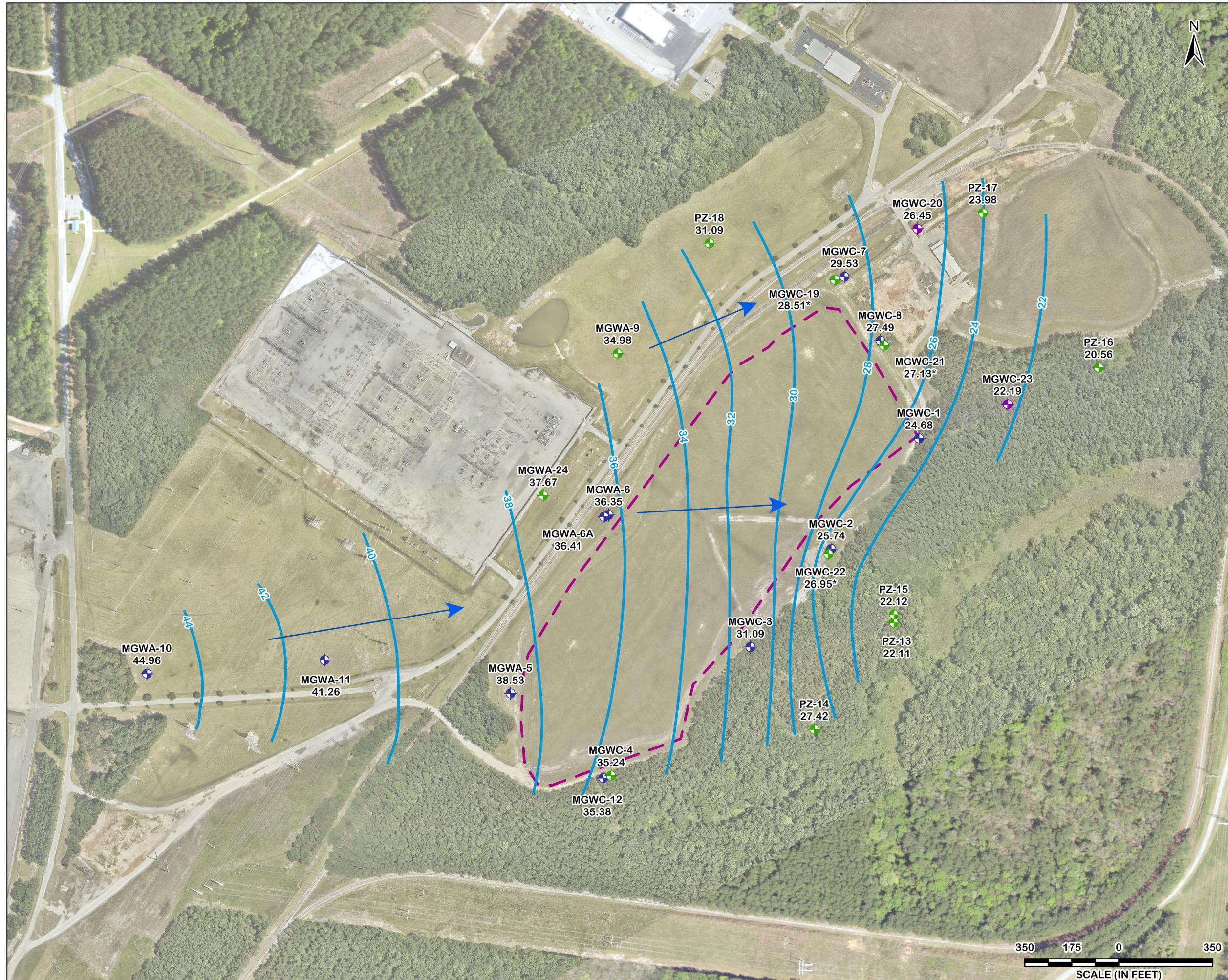


  
ATLANTIC COAST  
CONSULTING, INC.

2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT

POTENIOMETRIC CONTOUR MAP  
JULY 2023

FIGURE  
4B



## APPENDICES

## APPENDIX A

### Laboratory Analytical and Field Sampling Reports

## APPENDIX A

---

*Laboratory Analytical and Field Sampling Reports  
February 2023 Monitoring Event*

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Generated 2/20/2023 9:38:45 AM

## JOB DESCRIPTION

Plant McIntosh Ash Pond 1

## JOB NUMBER

680-230304-1

# Eurofins Savannah

## Job Notes

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

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

## Authorization



Generated  
2/20/2023 9:38:45 AM

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

## Definitions/Glossary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

### Qualifiers

#### HPLC/IC

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

#### Metals

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

### Glossary

#### Abbreviation

**These commonly used abbreviations may or may not be present in this report.**

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

1

2

3

4

5

6

7

8

9

10

11

12

## Sample Summary

Client: Southern Company  
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |    |
|---------------|------------------|--------|----------------|----------------|----|
| 680-230304-1  | MCI-MGWA-10      | Water  | 02/07/23 10:15 | 02/09/23 10:01 | 1  |
| 680-230304-2  | MCI-MGWA-11      | Water  | 02/07/23 12:10 | 02/09/23 10:01 | 2  |
| 680-230304-3  | MCI-MGWA-5       | Water  | 02/07/23 13:40 | 02/09/23 10:01 | 3  |
| 680-230304-4  | MCI-MGWA-6       | Water  | 02/07/23 12:05 | 02/09/23 10:01 | 4  |
| 680-230304-5  | MCI-MGWA-6A      | Water  | 02/07/23 10:40 | 02/09/23 10:01 | 5  |
| 680-230304-6  | MCI-MGWC-3       | Water  | 02/07/23 14:20 | 02/09/23 10:01 | 6  |
| 680-230304-7  | MCI-MGWC-12      | Water  | 02/07/23 15:05 | 02/09/23 10:01 | 7  |
| 680-230304-8  | MCI-MGWC-1       | Water  | 02/08/23 10:00 | 02/09/23 10:01 | 8  |
| 680-230304-9  | MCI-MGWC-2       | Water  | 02/08/23 09:55 | 02/09/23 10:01 | 9  |
| 680-230304-10 | MCI-MGWC-7       | Water  | 02/08/23 11:50 | 02/09/23 10:01 | 10 |
| 680-230304-11 | MCI-MGWC-8       | Water  | 02/08/23 13:30 | 02/09/23 10:01 | 11 |
| 680-230304-12 | MCI-AP1-FD-01    | Water  | 02/08/23 00:00 | 02/09/23 10:01 | 12 |
| 680-230304-13 | MCI-AP1-FD-02    | Water  | 02/08/23 00:00 | 02/09/23 10:01 |    |
| 680-230304-14 | MCI-AP1-FB-01    | Water  | 02/07/23 14:55 | 02/09/23 10:01 |    |
| 680-230304-15 | MCI-AP1-FB-02    | Water  | 02/08/23 10:25 | 02/09/23 10:01 |    |
| 680-230304-16 | MCI-AP1-EB-03    | Water  | 02/07/23 15:40 | 02/09/23 10:01 |    |
| 680-230304-17 | MCI-AP1-EB-04    | Water  | 02/08/23 11:45 | 02/09/23 10:01 |    |

# Case Narrative

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## Job ID: 680-230304-1

### Laboratory: Eurofins Savannah

#### Narrative

#### Job Narrative 680-230304-1

#### Receipt

The samples were received on 2/9/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.6°C, 3.1°C and 3.7°C

#### HPLC/IC

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

#### Metals

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

#### General Chemistry

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: MCI-MGWA-6, MCI-MGWA-6A, MCI-MGWC-3, MCI-MGWC-1, MCI-MGWC-2, MCI-MGWC-7, MCI-MGWVC-8, MCI-AP-1-FD-01 and MCI-AP-1-FD-02.

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWA-10**  
Date Collected: 02/07/23 10:15  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-1**  
Matrix: Water

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 7.0    |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 21:09 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 21:09 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 21:09 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Barium     | 0.021     |           | 0.010  | 0.00089  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   |          | 02/10/23 05:10 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Calcium    | 3.6       |           | 0.50   | 0.14     | mg/L |   |          | 02/10/23 05:10 | 1       |
| Chromium   | 0.0053    |           | 0.0020 | 0.0012   | mg/L |   |          | 02/10/23 05:10 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Lithium    | 0.0081    |           | 0.0050 | 0.0020   | mg/L |   |          | 02/10/23 05:10 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 02/10/23 05:10 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   |          | 02/10/23 08:21 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 61     |           | 10 | 10  | mg/L |   |          | 02/10/23 13:46 | 1       |

## Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 5.46   |           |    |     | SU   |   |          | 02/07/23 10:15 | 1       |

**Client Sample ID: MCI-MGWA-11**

**Lab Sample ID: 680-230304-2**

Matrix: Water

Date Collected: 02/07/23 12:10

Date Received: 02/09/23 10:01

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 4.2     |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 21:22 | 1       |
| Fluoride | 0.070 J |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 21:22 | 1       |
| Sulfate  | 3.3     |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 21:22 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------|----------------|---------|
| Antimony  | <0.00034 |           | 0.0020 | 0.00034 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Arsenic   | 0.0025   |           | 0.0010 | 0.00086 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Barium    | 0.10     |           | 0.010  | 0.00089 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Beryllium | <0.00020 |           | 0.0025 | 0.00020 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Boron     | 0.028 J  |           | 0.080  | 0.022   | mg/L |   |          | 02/10/23 05:10 | 1       |

Eurofins Savannah

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWA-11**  
Date Collected: 02/07/23 12:10  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-2**  
Matrix: Water

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

| Analyte           | Result           | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------|------------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Cadmium           | <0.000078        |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| <b>Calcium</b>    | <b>34</b>        |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Chromium          | <0.0012          |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Cobalt            | <0.00022         |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Lead              | <0.00021         |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| <b>Lithium</b>    | <b>0.022</b>     |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| <b>Molybdenum</b> | <b>0.00098 J</b> |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Selenium          | <0.00099         |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Thallium          | <0.00026         |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 16:48 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 190    |           | 10 | 10  | mg/L |   |          | 02/10/23 13:46 | 1       |

## Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.72   |           |    |     | SU   |   |          | 02/07/23 12:10 | 1       |

**Client Sample ID: MCI-MGWA-5**

**Lab Sample ID: 680-230304-3**

Matrix: Water

Date Collected: 02/07/23 13:40  
Date Received: 02/09/23 10:01

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 4.7     |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 21:35 | 1       |
| Fluoride | 0.069 J |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 21:35 | 1       |
| Sulfate  | 2.5     |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 21:35 | 1       |

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

| Analyte        | Result         | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony       | <0.00034       |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Arsenic        | <0.00086       |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| <b>Barium</b>  | <b>0.028</b>   |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Beryllium      | <0.00020       |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| <b>Boron</b>   | <b>0.022 J</b> |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Cadmium        | <0.000078      |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| <b>Calcium</b> | <b>26</b>      |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Chromium       | <0.0012        |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Cobalt         | <0.00022       |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Lead           | <0.00021       |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| <b>Lithium</b> | <b>0.011</b>   |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Molybdenum     | <0.00086       |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Selenium       | <0.00099       |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Thallium       | <0.00026       |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## **Client Sample ID: MCI-MGWA-5**

**Lab Sample ID: 680-230304-3**

**Matrix: Water**

Date Collected: 02/07/23 13:40  
Date Received: 02/09/23 10:01

### **Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 16:56 | 1       |

### **General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 150    |           | 10 | 10  | mg/L |   | 02/10/23 13:46 |          | 1       |

### **Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Field pH | 7.85   |           |    | SU  |      |   | 02/07/23 13:40 |          | 1       |

## **Client Sample ID: MCI-MGWA-6**

**Lab Sample ID: 680-230304-4**

**Matrix: Water**

Date Collected: 02/07/23 12:05  
Date Received: 02/09/23 10:01

### **Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------------|----------|---------|
| Chloride | 3.1     |           | 1.0  | 0.20  | mg/L |   | 02/11/23 21:48 |          | 1       |
| Fluoride | 0.060 J |           | 0.10 | 0.040 | mg/L |   | 02/11/23 21:48 |          | 1       |
| Sulfate  | 2.3     |           | 1.0  | 0.40  | mg/L |   | 02/11/23 21:48 |          | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Arsenic    | 0.011     |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Barium     | 0.030     |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Boron      | 0.028 J   |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Calcium    | 110       |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Cobalt     | 0.00023 J |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |

### **Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 16:58 | 1       |

### **General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 290    |           | 40 | 40  | mg/L |   | 02/10/23 13:46 |          | 1       |

### **Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Field pH | 7.13   |           |    | SU  |      |   | 02/07/23 12:05 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWA-6A**

**Lab Sample ID: 680-230304-5**

Matrix: Water

Date Collected: 02/07/23 10:40  
Date Received: 02/09/23 10:01

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.2    |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 22:01 | 1       |
| Fluoride | 0.064  | J         | 0.10 | 0.040 | mg/L |   |          | 02/11/23 22:01 | 1       |
| Sulfate  | 1.6    |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 22:01 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Arsenic    | 0.013     |           | 0.0010 | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Barium     | 0.032     |           | 0.010  | 0.00089  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Boron      | 0.039     | J         | 0.080  | 0.022    | mg/L |   |          | 02/10/23 05:10 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Calcium    | 99        |           | 0.50   | 0.14     | mg/L |   |          | 02/10/23 05:10 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 02/10/23 05:10 | 1       |
| Cobalt     | 0.00069   | J         | 0.0025 | 0.00022  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   |          | 02/10/23 05:10 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 02/10/23 05:10 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   |          | 02/10/23 08:21 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 260    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

**Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.24   |           |    |     | SU   |   |          | 02/07/23 10:40 | 1       |

**Client Sample ID: MCI-MGWC-3**

**Lab Sample ID: 680-230304-6**

Matrix: Water

Date Collected: 02/07/23 14:20  
Date Received: 02/09/23 10:01

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11     |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 22:15 | 1       |
| Fluoride | 0.076  | J         | 0.10 | 0.040 | mg/L |   |          | 02/11/23 22:15 | 1       |
| Sulfate  | 120    |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 22:15 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|----------|-----------|--------|---------|------|---|----------|----------------|---------|
| Antimony  | <0.00034 |           | 0.0020 | 0.00034 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Arsenic   | 0.0018   |           | 0.0010 | 0.00086 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Barium    | 0.16     |           | 0.010  | 0.00089 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Beryllium | <0.00020 |           | 0.0025 | 0.00020 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Boron     | 0.63     |           | 0.080  | 0.022   | mg/L |   |          | 02/10/23 05:10 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWC-3**  
Date Collected: 02/07/23 14:20  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-6**  
Matrix: Water

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Calcium    | 110       |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Cobalt     | 0.0025    |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Lead       | <0.000021 |           | 0.0010 | 0.000021 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Lithium    | 0.014     |           | 0.0050 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Molybdenum | <0.000086 |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Selenium   | <0.000099 |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Thallium   | <0.000026 |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 17:03 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 410    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

## Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.01   |           |    |     | SU   |   |          | 02/07/23 14:20 | 1       |

**Client Sample ID: MCI-MGWC-12**

**Lab Sample ID: 680-230304-7**

Date Collected: 02/07/23 15:05  
Date Received: 02/09/23 10:01

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 4.2    |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 22:28 | 1       |
| Fluoride | 0.25   |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 22:28 | 1       |
| Sulfate  | 4.7    |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 22:28 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000034 |           | 0.0020 | 0.000034 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Arsenic    | 0.00098 J |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Barium     | 0.060     |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Beryllium  | <0.000020 |           | 0.0025 | 0.000020 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Boron      | 0.067 J   |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:10 | 02/13/23 13:23 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Calcium    | 30        |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Chromium   | 0.0012 J  |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Cobalt     | <0.000022 |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Lead       | <0.000021 |           | 0.0010 | 0.000021 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Lithium    | 0.024     |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Molybdenum | <0.000086 |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Selenium   | <0.000099 |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Thallium   | <0.000026 |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## **Client Sample ID: MCI-MGWC-12**

Date Collected: 02/07/23 15:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-7**

Matrix: Water

### **Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 17:06 | 1       |

### **General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 190    |           | 10 | 10  | mg/L |   | 02/10/23 13:46 |          | 1       |

### **Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Field pH | 6.95   |           |    | SU  |      |   | 02/07/23 15:05 |          | 1       |

## **Client Sample ID: MCI-MGWC-1**

Date Collected: 02/08/23 10:00  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-8**

Matrix: Water

### **Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------|---------|
| Chloride | 12     |           | 1.0  | 0.20  | mg/L |   | 02/12/23 00:00 |          | 1       |
| Fluoride | 0.11   |           | 0.10 | 0.040 | mg/L |   | 02/12/23 00:00 |          | 1       |
| Sulfate  | 140    |           | 1.0  | 0.40  | mg/L |   | 02/12/23 00:00 |          | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Arsenic    | 0.0016    |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Barium     | 0.10      |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Boron      | 1.5       |           | 0.32   | 0.088    | mg/L |   | 02/10/23 05:10 | 02/13/23 13:27 | 4       |
| Cadmium    | 0.00012 J |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Calcium    | 110       |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Chromium   | 0.0014 J  |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Lithium    | 0.010     |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Molybdenum | 0.0012 J  |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |

### **Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 17:08 | 1       |

### **General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 400    |           | 40 | 40  | mg/L |   | 02/10/23 13:46 |          | 1       |

### **Method: EPA Field Sampling - Field Sampling**

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Field pH | 7.28   |           |    | SU  |      |   | 02/08/23 10:00 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWC-2**  
Date Collected: 02/08/23 09:55  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-9**  
Matrix: Water

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11     |           | 1.0  | 0.20  | mg/L |   |          | 02/12/23 00:40 | 1       |
| Fluoride | 0.074  | J         | 0.10 | 0.040 | mg/L |   |          | 02/12/23 00:40 | 1       |
| Sulfate  | 150    |           | 1.0  | 0.40  | mg/L |   |          | 02/12/23 00:40 | 1       |

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

| Analyte    | Result   | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac        |
|------------|----------|-----------|--------|----------|------|---|----------|----------------|----------------|
| Antimony   | <0.00034 |           | 0.0020 | 0.00034  | mg/L |   |          | 02/10/23 05:10 | 1              |
| Arsenic    | <0.00086 |           | 0.0010 | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1              |
| Barium     | 0.044    |           | 0.010  | 0.00089  | mg/L |   |          | 02/10/23 05:10 | 1              |
| Beryllium  | <0.00020 |           | 0.0025 | 0.00020  | mg/L |   |          | 02/10/23 05:10 | 1              |
| Boron      | 1.8      |           | 0.32   | 0.088    | mg/L |   |          | 02/10/23 05:10 | 02/13/23 13:30 |
| Cadmium    | 0.0021   | J         | 0.0025 | 0.000078 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Calcium    | 100      |           | 0.50   | 0.14     | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Chromium   | <0.0012  |           | 0.0020 | 0.0012   | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Cobalt     | 0.0012   | J         | 0.0025 | 0.00022  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Lead       | <0.00021 |           | 0.0010 | 0.00021  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Lithium    | 0.0065   |           | 0.0050 | 0.0020   | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:39 |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac        |
|---------|-----------|-----------|---------|----------|------|---|----------|----------------|----------------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   |          | 02/10/23 08:21 | 02/10/23 17:11 |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 440    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

## Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.44   |           |    |     | SU   |   |          | 02/08/23 09:55 | 1       |

**Client Sample ID: MCI-MGWC-7**

**Lab Sample ID: 680-230304-10**

Date Collected: 02/08/23 11:50  
Date Received: 02/09/23 10:01

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11     |           | 1.0  | 0.20  | mg/L |   |          | 02/12/23 00:53 | 1       |
| Fluoride | 0.14   |           | 0.10 | 0.040 | mg/L |   |          | 02/12/23 00:53 | 1       |
| Sulfate  | 220    |           | 1.0  | 0.40  | mg/L |   |          | 02/12/23 00:53 | 1       |

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

| Analyte   | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared | Analyzed       | Dil Fac        |
|-----------|----------|-----------|--------|---------|------|---|----------|----------------|----------------|
| Antimony  | 0.00051  | J         | 0.0020 | 0.00034 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:43 |
| Arsenic   | <0.00086 |           | 0.0010 | 0.00086 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:43 |
| Barium    | 0.020    |           | 0.010  | 0.00089 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:43 |
| Beryllium | <0.00020 |           | 0.0025 | 0.00020 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:43 |
| Boron     | 2.1      |           | 0.32   | 0.088   | mg/L |   |          | 02/10/23 05:10 | 02/13/23 13:34 |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWC-7**  
Date Collected: 02/08/23 11:50  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-10**  
Matrix: Water

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Calcium    | 65        |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Chromium   | 0.0013 J  |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Cobalt     | 0.0044    |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Lead       | <0.000021 |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Lithium    | 0.14      |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Molybdenum | <0.000086 |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Selenium   | <0.000099 |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Thallium   | <0.000026 |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 17:14 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 370    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

## Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 7.43   |           |    |     | SU   |   |          | 02/08/23 11:50 | 1       |

**Client Sample ID: MCI-MGWC-8**

**Lab Sample ID: 680-230304-11**

Date Collected: 02/08/23 13:30  
Date Received: 02/09/23 10:01

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 13      |           | 1.0  | 0.20  | mg/L |   |          | 02/12/23 01:06 | 1       |
| Fluoride | 0.084 J |           | 0.10 | 0.040 | mg/L |   |          | 02/12/23 01:06 | 1       |

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | 280    |           | 5.0 | 2.0 | mg/L |   |          | 02/15/23 22:11 | 5       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.000034 |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Arsenic    | 0.0010    |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Barium     | 0.052     |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Beryllium  | 0.00020 J |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Boron      | 3.9       |           | 0.80   | 0.22     | mg/L |   | 02/10/23 05:10 | 02/13/23 13:38 | 10      |
| Cadmium    | 0.0018 J  |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Calcium    | 110       |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Chromium   | 0.0013 J  |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Cobalt     | 0.0019 J  |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Lead       | <0.000021 |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Lithium    | 0.012     |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Molybdenum | <0.000086 |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Selenium   | <0.000099 |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWC-8**  
Date Collected: 02/08/23 13:30  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-11**  
Matrix: Water

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

| Analyte  | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Thallium | <0.00026 |           | 0.0010 | 0.00026 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result  | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.00026 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:21 | 02/10/23 17:16 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 480    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

## Method: EPA Field Sampling - Field Sampling

| Analyte  | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Field pH | 6.76   |           |    | SU  |      |   |          | 02/08/23 13:30 | 1       |

**Client Sample ID: MCI-AP1-FD-01**

**Lab Sample ID: 680-230304-12**

Matrix: Water

Date Collected: 02/08/23 00:00  
Date Received: 02/09/23 10:01

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 11      |           | 1.0  | 0.20  | mg/L |   |          | 02/12/23 01:19 | 1       |
| Fluoride | 0.072 J |           | 0.10 | 0.040 | mg/L |   |          | 02/12/23 01:19 | 1       |
| Sulfate  | 150     |           | 1.0  | 0.40  | mg/L |   |          | 02/12/23 01:19 | 1       |

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

| Analyte    | Result   | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034 |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Arsenic    | <0.00086 |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Barium     | 0.041    | J         | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Beryllium  | <0.00020 |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Boron      | 1.8      |           | 0.32   | 0.088    | mg/L |   | 02/10/23 05:10 | 02/13/23 13:42 | 4       |
| Cadmium    | 0.0010 J |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Calcium    | 99       |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Chromium   | <0.0012  |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Cobalt     | 0.0011 J |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Lead       | <0.00021 |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Lithium    | 0.0051   |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:51 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 13:31 | 02/14/23 11:05 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 440    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

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# Client Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

**Client Sample ID: MCI-AP1-FD-02**

**Lab Sample ID: 680-230304-13**

Matrix: Water

Date Collected: 02/08/23 00:00

Date Received: 02/09/23 10:01

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 13      |           | 1.0  | 0.20  | mg/L |   |          | 02/12/23 01:32 | 1       |
| Fluoride | 0.084 J |           | 0.10 | 0.040 | mg/L |   |          | 02/12/23 01:32 | 1       |

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography - DL**

| Analyte | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | 280    |           | 5.0 | 2.0 | mg/L |   |          | 02/15/23 22:24 | 5       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac        |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|----------------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Arsenic    | 0.00089 J |           | 0.0010 | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Barium     | 0.052     |           | 0.010  | 0.00089  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Beryllium  | 0.00025 J |           | 0.0025 | 0.00020  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Boron      | 3.9       |           | 0.80   | 0.22     | mg/L |   |          | 02/10/23 05:10 | 02/13/23 13:46 |
| Cadmium    | 0.0014 J  |           | 0.0025 | 0.000078 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Calcium    | 100       |           | 0.50   | 0.14     | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Cobalt     | 0.0021 J  |           | 0.0025 | 0.00022  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Lithium    | 0.013     |           | 0.0050 | 0.0020   | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:55 |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac        |
|---------|-----------|-----------|---------|----------|------|---|----------|----------------|----------------|
| Mercury | 0.00018 J |           | 0.00020 | 0.000080 | mg/L |   |          | 02/10/23 13:31 | 02/14/23 11:07 |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 490    |           | 40 | 40  | mg/L |   |          | 02/10/23 13:46 | 1       |

**Client Sample ID: MCI-AP1-FB-01**

**Lab Sample ID: 680-230304-14**

Matrix: Water

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 22:41 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 22:41 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 22:41 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac        |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|----------------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:59 |
| Arsenic   | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:59 |
| Barium    | <0.00089  |           | 0.010  | 0.00089  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:59 |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:59 |
| Boron     | 0.044 J   |           | 0.080  | 0.022    | mg/L |   |          | 02/10/23 05:10 | 02/13/23 13:50 |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 02/10/23 05:10 | 02/10/23 15:59 |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-AP1-FB-01**

**Lab Sample ID: 680-230304-14**

Matrix: Water

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

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

| Analyte    | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Calcium    | <0.14    |           | 0.50   | 0.14    | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Chromium   | <0.0012  |           | 0.0020 | 0.0012  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Cobalt     | <0.00022 |           | 0.0025 | 0.00022 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Lead       | <0.00021 |           | 0.0010 | 0.00021 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Lithium    | <0.0020  |           | 0.0050 | 0.0020  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:59 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 13:31 | 02/14/23 11:10 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   | 02/10/23 13:46 |          | 1       |

**Client Sample ID: MCI-AP1-FB-02**

**Lab Sample ID: 680-230304-15**

Matrix: Water

Date Collected: 02/08/23 10:25

Date Received: 02/09/23 10:01

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------------|----------|---------|
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   | 02/12/23 01:46 |          | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   | 02/12/23 01:46 |          | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   | 02/12/23 01:46 |          | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Barium     | <0.00089  |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:10 | 02/13/23 14:02 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Calcium    | <0.14     |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 16:12 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 13:31 | 02/14/23 11:12 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## **Client Sample ID: MCI-AP1-FB-02**

Date Collected: 02/08/23 10:25

Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-15**

Matrix: Water

### General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   |          | 02/10/23 13:00 | 1       |

## **Client Sample ID: MCI-AP1-EB-03**

Date Collected: 02/07/23 15:40

Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-16**

Matrix: Water

### Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 22:54 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 22:54 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 22:54 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Barium     | <0.00089  |           | 0.010  | 0.00089  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   |          | 02/10/23 05:10 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 02/10/23 05:10 | 1       |
| Calcium    | <0.14     |           | 0.50   | 0.14     | mg/L |   |          | 02/10/23 05:10 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 02/10/23 05:10 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   |          | 02/10/23 05:10 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 02/10/23 05:10 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 02/10/23 05:10 | 1       |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   |          | 02/10/23 13:31 | 1       |

### General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   |          | 02/14/23 13:00 | 1       |

## **Client Sample ID: MCI-AP1-EB-04**

Date Collected: 02/08/23 11:45

Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-17**

Matrix: Water

### Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   |          | 02/12/23 01:59 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 02/12/23 01:59 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 02/12/23 01:59 | 1       |

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

| Analyte  | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|----------|-----------|--------|---------|------|---|----------|----------------|---------|
| Antimony | <0.00034 |           | 0.0020 | 0.00034 | mg/L |   |          | 02/10/23 05:56 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-AP1-EB-04**

**Lab Sample ID: 680-230304-17**

**Matrix: Water**

Date Collected: 02/08/23 11:45

Date Received: 02/09/23 10:01

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Barium     | <0.00089  |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Calcium    | <0.14     |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:56 | 02/10/23 22:30 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 13:31 | 02/14/23 11:17 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   |          | 02/15/23 11:50 | 1       |

# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-762939/33

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 762939

| Analyte  | MB     | MB        | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
|          | Result | Qualifier |        |           |      |       |      |   |          |                |         |
| Chloride | <0.20  |           |        |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 16:46 | 1       |
| Fluoride | <0.040 |           |        |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 16:46 | 1       |
| Sulfate  | <0.40  |           |        |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 16:46 | 1       |

Lab Sample ID: LCS 680-762939/34

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 762939

| Analyte  | Spike | LCSD  | LCSD   | Result | Qualifier | Unit | D | %Rec | Limits   | %Rec | RPD |
|----------|-------|-------|--------|--------|-----------|------|---|------|----------|------|-----|
|          |       | Added | Result |        |           |      |   |      |          |      |     |
| Chloride |       | 10.0  | 10.3   |        |           | mg/L |   | 103  | 90 - 110 |      |     |
| Fluoride |       | 2.00  | 2.14   |        |           | mg/L |   | 107  | 90 - 110 |      |     |
| Sulfate  |       | 10.0  | 9.83   |        |           | mg/L |   | 98   | 90 - 110 |      |     |

Lab Sample ID: LCSD 680-762939/35

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 762939

| Analyte  | Spike | LCSD  | LCSD   | Result | Qualifier | Unit | D | %Rec | Limits   | %Rec | RPD | Limit |
|----------|-------|-------|--------|--------|-----------|------|---|------|----------|------|-----|-------|
|          |       | Added | Result |        |           |      |   |      |          |      |     |       |
| Chloride |       | 10.0  | 10.3   |        |           | mg/L |   | 103  | 90 - 110 |      | 0   | 15    |
| Fluoride |       | 2.00  | 2.15   |        |           | mg/L |   | 107  | 90 - 110 |      | 1   | 15    |
| Sulfate  |       | 10.0  | 9.96   |        |           | mg/L |   | 100  | 90 - 110 |      | 1   | 15    |

Lab Sample ID: 680-230302-D-25 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 762939

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Result | Qualifier | Unit | D | %Rec | Limits   | %Rec |
|----------|--------|-----------|-------|--------|-----------|--------|-----------|------|---|------|----------|------|
|          | Result | Qualifier | Added | Result | Qualifier |        |           |      |   |      |          |      |
| Chloride |        | 4.9       | 10.0  |        | 14.5      |        |           | mg/L |   | 96   | 80 - 120 |      |
| Fluoride |        | <0.040    | 2.00  |        | 2.06      |        |           | mg/L |   | 103  | 80 - 120 |      |
| Sulfate  |        | 1.7       | 10.0  |        | 11.3      |        |           | mg/L |   | 96   | 80 - 120 |      |

Lab Sample ID: 680-230302-D-25 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 762939

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Result | Qualifier | Unit | D | %Rec | Limits   | %Rec |
|----------|--------|-----------|-------|--------|-----------|--------|-----------|------|---|------|----------|------|
|          | Result | Qualifier | Added | Result | Qualifier |        |           |      |   |      |          |      |
| Chloride |        | 4.9       | 10.0  |        | 14.6      |        |           | mg/L |   | 98   | 80 - 120 |      |
| Fluoride |        | <0.040    | 2.00  |        | 2.10      |        |           | mg/L |   | 105  | 80 - 120 |      |
| Sulfate  |        | 1.7       | 10.0  |        | 11.5      |        |           | mg/L |   | 98   | 80 - 120 |      |

Lab Sample ID: MB 680-762940/63

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 762940

| Analyte  | MB     | MB        | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
|          | Result | Qualifier |        |           |      |       |      |   |          |                |         |
| Chloride | <0.20  |           |        |           | 1.0  | 0.20  | mg/L |   |          | 02/11/23 23:20 | 1       |
| Fluoride | <0.040 |           |        |           | 0.10 | 0.040 | mg/L |   |          | 02/11/23 23:20 | 1       |
| Sulfate  | <0.40  |           |        |           | 1.0  | 0.40  | mg/L |   |          | 02/11/23 23:20 | 1       |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 680-762940/64**

**Matrix: Water**

**Analysis Batch: 762940**

| Analyte  | Spike<br>Added | LCS    | LCS       | Unit | D | %Rec | %Rec     | RPD | Limit |
|----------|----------------|--------|-----------|------|---|------|----------|-----|-------|
|          |                | Result | Qualifier |      |   |      | Limits   |     |       |
| Chloride | 10.0           | 10.3   |           | mg/L |   | 103  | 90 - 110 |     |       |
| Fluoride | 2.00           | 2.11   |           | mg/L |   | 105  | 90 - 110 |     |       |
| Sulfate  | 10.0           | 9.52   |           | mg/L |   | 95   | 90 - 110 |     |       |

**Lab Sample ID: LCSD 680-762940/65**

**Matrix: Water**

**Analysis Batch: 762940**

| Analyte  | Spike<br>Added | LCSD   | LCSD      | Unit | D | %Rec | %Rec     | RPD | Limit |
|----------|----------------|--------|-----------|------|---|------|----------|-----|-------|
|          |                | Result | Qualifier |      |   |      | Limits   |     |       |
| Chloride | 10.0           | 10.3   |           | mg/L |   | 103  | 90 - 110 | 0   | 15    |
| Fluoride | 2.00           | 2.10   |           | mg/L |   | 105  | 90 - 110 | 0   | 15    |
| Sulfate  | 10.0           | 9.47   |           | mg/L |   | 95   | 90 - 110 | 0   | 15    |

**Lab Sample ID: 680-230304-8 MS**

**Matrix: Water**

**Analysis Batch: 762940**

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec     | RPD | Limit |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     |       |
| Chloride | 12     |           | 10.0  | 22.3   |           | mg/L |   | 101  | 80 - 120 |     |       |
| Fluoride | 0.11   |           | 2.00  | 2.30   |           | mg/L |   | 109  | 80 - 120 |     |       |
| Sulfate  | 140    |           | 10.0  | 149    | 4         | mg/L |   | 84   | 80 - 120 |     |       |

**Lab Sample ID: 680-230304-8 MSD**

**Matrix: Water**

**Analysis Batch: 762940**

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | Limit |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     |       |
| Chloride | 12     |           | 10.0  | 22.1   |           | mg/L |   | 99   | 80 - 120 | 1   | 15    |
| Fluoride | 0.11   |           | 2.00  | 2.25   |           | mg/L |   | 107  | 80 - 120 | 2   | 15    |
| Sulfate  | 140    |           | 10.0  | 149    | 4         | mg/L |   | 85   | 80 - 120 | 0   | 15    |

**Lab Sample ID: MB 680-763601/11**

**Matrix: Water**

**Analysis Batch: 763601**

| Analyte  | MB     | MB        | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
|          | Result | Qualifier |      |       |      |   |          |                |         |
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   |          | 02/15/23 16:45 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 02/15/23 16:45 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 02/15/23 16:45 | 1       |

**Lab Sample ID: LCS 680-763601/12**

**Matrix: Water**

**Analysis Batch: 763601**

| Analyte  | Spike<br>Added | LCS    | LCS       | Unit | D | %Rec | %Rec     | RPD | Limit |
|----------|----------------|--------|-----------|------|---|------|----------|-----|-------|
|          |                | Result | Qualifier |      |   |      | Limits   |     |       |
| Chloride | 10.0           | 10.2   |           | mg/L |   | 102  | 90 - 110 |     |       |
| Fluoride | 2.00           | 2.12   |           | mg/L |   | 106  | 90 - 110 |     |       |
| Sulfate  | 10.0           | 10.2   |           | mg/L |   | 102  | 90 - 110 |     |       |

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-763601/13

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 763601

| Analyte  |  | Spike | LCSD   | LCSD      | Unit | D | %Rec | %Rec     | RPD | RPD |
|----------|--|-------|--------|-----------|------|---|------|----------|-----|-----|
|          |  | Added | Result | Qualifier |      |   |      |          |     |     |
| Chloride |  | 10.0  | 10.1   |           | mg/L |   | 101  | 90 - 110 | 1   | 15  |
| Fluoride |  | 2.00  | 2.08   |           | mg/L |   | 104  | 90 - 110 | 2   | 15  |
| Sulfate  |  | 10.0  | 10.0   |           | mg/L |   | 100  | 90 - 110 | 1   | 15  |

Lab Sample ID: 680-230370-R-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 763601

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec     | RPD |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |     |
| Chloride | 6.6    |           | 10.0  | 16.5   |           | mg/L |   | 99   | 80 - 120 |     |
| Fluoride | 0.057  | J         | 2.00  | 2.06   |           | mg/L |   | 100  | 80 - 120 |     |
| Sulfate  | 4.5    |           | 10.0  | 14.3   |           | mg/L |   | 99   | 80 - 120 |     |

Lab Sample ID: 680-230370-R-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 763601

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |     |
| Chloride | 6.6    |           | 10.0  | 16.3   |           | mg/L |   | 98   | 80 - 120 | 1   |
| Fluoride | 0.057  | J         | 2.00  | 2.04   |           | mg/L |   | 99   | 80 - 120 | 1   |
| Sulfate  | 4.5    |           | 10.0  | 14.2   |           | mg/L |   | 97   | 80 - 120 | 1   |

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

Lab Sample ID: MB 680-762796/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total Recoverable

Analysis Batch: 762951

Prep Batch: 762796

| Analyte    | MB        | MB        | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
|            | Result    | Qualifier |        |          |      |   |                |                |         |
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Barium     | <0.00089  |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Calcium    | <0.14     |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |

Lab Sample ID: LCS 680-762796/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total Recoverable

Analysis Batch: 762951

Prep Batch: 762796

| Analyte  | Spike  | LCS    | LCS       | Unit | D | %Rec | %Rec     |  |
|----------|--------|--------|-----------|------|---|------|----------|--|
|          | Added  | Result | Qualifier |      |   |      |          |  |
| Antimony | 0.0500 | 0.0509 |           | mg/L |   | 102  | 80 - 120 |  |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

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

**Lab Sample ID: LCS 680-762796/2-A**

**Matrix: Water**

**Analysis Batch: 762951**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 762796**

| Analyte    |  | Spike  | LCS    | LCS       | Unit | D | %Rec | Limits   |  |
|------------|--|--------|--------|-----------|------|---|------|----------|--|
|            |  | Added  | Result | Qualifier |      |   |      |          |  |
| Arsenic    |  | 0.100  | 0.104  |           | mg/L |   | 104  | 80 - 120 |  |
| Barium     |  | 0.100  | 0.0989 |           | mg/L |   | 99   | 80 - 120 |  |
| Beryllium  |  | 0.0500 | 0.0511 |           | mg/L |   | 102  | 80 - 120 |  |
| Boron      |  | 0.200  | 0.213  |           | mg/L |   | 106  | 80 - 120 |  |
| Cadmium    |  | 0.0500 | 0.0516 |           | mg/L |   | 103  | 80 - 120 |  |
| Calcium    |  | 5.00   | 5.06   |           | mg/L |   | 101  | 80 - 120 |  |
| Chromium   |  | 0.100  | 0.109  |           | mg/L |   | 109  | 80 - 120 |  |
| Cobalt     |  | 0.0500 | 0.0532 |           | mg/L |   | 106  | 80 - 120 |  |
| Lead       |  | 0.505  | 0.517  |           | mg/L |   | 102  | 80 - 120 |  |
| Lithium    |  | 0.500  | 0.504  |           | mg/L |   | 101  | 80 - 120 |  |
| Molybdenum |  | 0.100  | 0.107  |           | mg/L |   | 107  | 80 - 120 |  |
| Selenium   |  | 0.100  | 0.105  |           | mg/L |   | 105  | 80 - 120 |  |
| Thallium   |  | 0.0500 | 0.0490 |           | mg/L |   | 98   | 80 - 120 |  |

**Lab Sample ID: 752-2580-A-5-E MS**

**Matrix: Water**

**Analysis Batch: 762951**

**Client Sample ID: Matrix Spike**

**Prep Type: Total Recoverable**

**Prep Batch: 762796**

| Analyte    | Sample    | Sample    | Spike  | MS     | MS        | Unit | D | %Rec | Limits   |  |
|------------|-----------|-----------|--------|--------|-----------|------|---|------|----------|--|
|            | Result    | Qualifier | Added  | Result | Qualifier |      |   |      |          |  |
| Antimony   | <0.00034  |           | 0.0500 | 0.0522 |           | mg/L |   | 104  | 75 - 125 |  |
| Arsenic    | <0.00086  |           | 0.100  | 0.106  |           | mg/L |   | 106  | 75 - 125 |  |
| Barium     | 0.021     |           | 0.100  | 0.121  |           | mg/L |   | 100  | 75 - 125 |  |
| Beryllium  | <0.00020  |           | 0.0500 | 0.0508 |           | mg/L |   | 102  | 75 - 125 |  |
| Boron      | <0.022    |           | 0.200  | 0.217  |           | mg/L |   | 109  | 75 - 125 |  |
| Cadmium    | <0.000078 |           | 0.0500 | 0.0514 |           | mg/L |   | 103  | 75 - 125 |  |
| Calcium    | 0.52      |           | 5.00   | 5.67   |           | mg/L |   | 103  | 75 - 125 |  |
| Chromium   | 0.0041    |           | 0.100  | 0.114  |           | mg/L |   | 110  | 75 - 125 |  |
| Cobalt     | 0.00079 J |           | 0.0500 | 0.0553 |           | mg/L |   | 109  | 75 - 125 |  |
| Lead       | <0.00021  |           | 0.505  | 0.525  |           | mg/L |   | 104  | 75 - 125 |  |
| Lithium    | <0.0020   |           | 0.500  | 0.492  |           | mg/L |   | 98   | 75 - 125 |  |
| Molybdenum | <0.00086  |           | 0.100  | 0.109  |           | mg/L |   | 109  | 75 - 125 |  |
| Selenium   | <0.00099  |           | 0.100  | 0.107  |           | mg/L |   | 107  | 75 - 125 |  |
| Thallium   | <0.00026  |           | 0.0500 | 0.0491 |           | mg/L |   | 98   | 75 - 125 |  |

**Lab Sample ID: 752-2580-A-5-F MSD**

**Matrix: Water**

**Analysis Batch: 762951**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 762796**

| Analyte   | Sample    | Sample    | Spike  | MSD    | MSD       | Unit | D | %Rec | Limits   | RPD | Limit |
|-----------|-----------|-----------|--------|--------|-----------|------|---|------|----------|-----|-------|
|           | Result    | Qualifier | Added  | Result | Qualifier |      |   |      |          |     |       |
| Antimony  | <0.00034  |           | 0.0500 | 0.0492 |           | mg/L |   | 98   | 75 - 125 | 6   | 20    |
| Arsenic   | <0.00086  |           | 0.100  | 0.103  |           | mg/L |   | 103  | 75 - 125 | 3   | 20    |
| Barium    | 0.021     |           | 0.100  | 0.119  |           | mg/L |   | 98   | 75 - 125 | 2   | 20    |
| Beryllium | <0.00020  |           | 0.0500 | 0.0503 |           | mg/L |   | 101  | 75 - 125 | 1   | 20    |
| Boron     | <0.022    |           | 0.200  | 0.214  |           | mg/L |   | 107  | 75 - 125 | 1   | 20    |
| Cadmium   | <0.000078 |           | 0.0500 | 0.0493 |           | mg/L |   | 99   | 75 - 125 | 4   | 20    |
| Calcium   | 0.52      |           | 5.00   | 5.52   |           | mg/L |   | 100  | 75 - 125 | 3   | 20    |
| Chromium  | 0.0041    |           | 0.100  | 0.111  |           | mg/L |   | 107  | 75 - 125 | 2   | 20    |
| Cobalt    | 0.00079 J |           | 0.0500 | 0.0530 |           | mg/L |   | 104  | 75 - 125 | 4   | 20    |
| Lead      | <0.00021  |           | 0.505  | 0.514  |           | mg/L |   | 102  | 75 - 125 | 2   | 20    |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

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

**Lab Sample ID: 752-2580-A-5-F MSD**

**Matrix: Water**

**Analysis Batch: 762951**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 762796**

| Analyte    | Sample   | Sample    | Spike  | MSD    | MSD       | Unit | D | %Rec | Limits   | RPD | RPD Limit |
|------------|----------|-----------|--------|--------|-----------|------|---|------|----------|-----|-----------|
|            | Result   | Qualifier | Added  | Result | Qualifier |      |   |      |          |     |           |
| Lithium    | <0.0020  |           | 0.500  | 0.490  |           | mg/L |   | 98   | 75 - 125 | 0   | 20        |
| Molybdenum | <0.00086 |           | 0.100  | 0.108  |           | mg/L |   | 108  | 75 - 125 | 2   | 20        |
| Selenium   | <0.00099 |           | 0.100  | 0.105  |           | mg/L |   | 105  | 75 - 125 | 3   | 20        |
| Thallium   | <0.00026 |           | 0.0500 | 0.0486 |           | mg/L |   | 97   | 75 - 125 | 1   | 20        |

**Lab Sample ID: MB 680-762798/1-A**

**Matrix: Water**

**Analysis Batch: 762951**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 762798**

| Analyte    | MB        | MB        | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
|            | Result    | Qualifier |        |          |      |   |                |                |         |
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Barium     | <0.00089  |           | 0.010  | 0.00089  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Calcium    | <0.14     |           | 0.50   | 0.14     | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Lithium    | 0.00290 J |           | 0.0050 | 0.0020   | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 02/10/23 05:56 | 02/11/23 11:15 | 1       |

**Lab Sample ID: LCS 680-762798/2-A**

**Matrix: Water**

**Analysis Batch: 762951**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 762798**

| Analyte    | Spike  | LCS    | LCS | %Rec   |           |      |     |          |
|------------|--------|--------|-----|--------|-----------|------|-----|----------|
|            | Added  |        |     | Result | Qualifier | Unit | D   | %Rec     |
| Antimony   | 0.0500 | 0.0504 |     | mg/L   |           |      | 101 | 80 - 120 |
| Arsenic    | 0.100  | 0.102  |     | mg/L   |           |      | 102 | 80 - 120 |
| Barium     | 0.100  | 0.0955 |     | mg/L   |           |      | 95  | 80 - 120 |
| Beryllium  | 0.0500 | 0.0472 |     | mg/L   |           |      | 94  | 80 - 120 |
| Boron      | 0.200  | 0.194  |     | mg/L   |           |      | 97  | 80 - 120 |
| Cadmium    | 0.0500 | 0.0500 |     | mg/L   |           |      | 100 | 80 - 120 |
| Calcium    | 5.00   | 4.93   |     | mg/L   |           |      | 99  | 80 - 120 |
| Chromium   | 0.100  | 0.103  |     | mg/L   |           |      | 103 | 80 - 120 |
| Cobalt     | 0.0500 | 0.0500 |     | mg/L   |           |      | 100 | 80 - 120 |
| Lead       | 0.505  | 0.489  |     | mg/L   |           |      | 97  | 80 - 120 |
| Lithium    | 0.500  | 0.463  |     | mg/L   |           |      | 93  | 80 - 120 |
| Molybdenum | 0.100  | 0.104  |     | mg/L   |           |      | 104 | 80 - 120 |
| Selenium   | 0.100  | 0.0998 |     | mg/L   |           |      | 100 | 80 - 120 |
| Thallium   | 0.0500 | 0.0470 |     | mg/L   |           |      | 94  | 80 - 120 |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

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

**Lab Sample ID:** 680-230302-C-21-B MS

**Matrix:** Water

**Analysis Batch:** 762951

**Client Sample ID:** Matrix Spike

**Prep Type:** Total Recoverable

**Prep Batch:** 762798

| Analyte    | Sample    | Sample    | Spike  | MS     | MS        | Unit | D | %Rec | %Rec     |
|------------|-----------|-----------|--------|--------|-----------|------|---|------|----------|
|            | Result    | Qualifier | Added  | Result | Qualifier |      |   |      |          |
| Antimony   | <0.00034  |           | 0.0500 | 0.0478 |           | mg/L |   | 96   | 75 - 125 |
| Arsenic    | <0.00086  |           | 0.100  | 0.0974 |           | mg/L |   | 97   | 75 - 125 |
| Barium     | 0.012     |           | 0.100  | 0.108  |           | mg/L |   | 95   | 75 - 125 |
| Beryllium  | <0.00020  |           | 0.0500 | 0.0472 |           | mg/L |   | 94   | 75 - 125 |
| Boron      | <0.022    |           | 0.200  | 0.209  |           | mg/L |   | 104  | 75 - 125 |
| Cadmium    | <0.000078 |           | 0.0500 | 0.0480 |           | mg/L |   | 96   | 75 - 125 |
| Calcium    | 0.66      |           | 5.00   | 5.37   |           | mg/L |   | 94   | 75 - 125 |
| Chromium   | 0.0019 J  |           | 0.100  | 0.104  |           | mg/L |   | 102  | 75 - 125 |
| Cobalt     | 0.00026 J |           | 0.0500 | 0.0499 |           | mg/L |   | 99   | 75 - 125 |
| Lead       | <0.00021  |           | 0.505  | 0.487  |           | mg/L |   | 97   | 75 - 125 |
| Lithium    | <0.0020   |           | 0.500  | 0.470  |           | mg/L |   | 94   | 75 - 125 |
| Molybdenum | <0.00086  |           | 0.100  | 0.101  |           | mg/L |   | 101  | 75 - 125 |
| Selenium   | <0.00099  |           | 0.100  | 0.102  |           | mg/L |   | 102  | 75 - 125 |
| Thallium   | <0.00026  |           | 0.0500 | 0.0462 |           | mg/L |   | 92   | 75 - 125 |

**Lab Sample ID:** 680-230302-C-21-C MSD

**Matrix:** Water

**Analysis Batch:** 762951

**Client Sample ID:** Matrix Spike Duplicate

**Prep Type:** Total Recoverable

**Prep Batch:** 762798

| Analyte    | Sample    | Sample    | Spike  | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD | Limit |
|------------|-----------|-----------|--------|--------|-----------|------|---|------|----------|-----|-----|-------|
|            | Result    | Qualifier | Added  | Result | Qualifier |      |   |      |          |     |     |       |
| Antimony   | <0.00034  |           | 0.0500 | 0.0507 |           | mg/L |   | 101  | 75 - 125 | 6   | 20  |       |
| Arsenic    | <0.00086  |           | 0.100  | 0.100  |           | mg/L |   | 100  | 75 - 125 | 3   | 20  |       |
| Barium     | 0.012     |           | 0.100  | 0.108  |           | mg/L |   | 96   | 75 - 125 | 1   | 20  |       |
| Beryllium  | <0.00020  |           | 0.0500 | 0.0490 |           | mg/L |   | 98   | 75 - 125 | 4   | 20  |       |
| Boron      | <0.022    |           | 0.200  | 0.215  |           | mg/L |   | 108  | 75 - 125 | 3   | 20  |       |
| Cadmium    | <0.000078 |           | 0.0500 | 0.0505 |           | mg/L |   | 101  | 75 - 125 | 5   | 20  |       |
| Calcium    | 0.66      |           | 5.00   | 5.55   |           | mg/L |   | 98   | 75 - 125 | 3   | 20  |       |
| Chromium   | 0.0019 J  |           | 0.100  | 0.104  |           | mg/L |   | 102  | 75 - 125 | 0   | 20  |       |
| Cobalt     | 0.00026 J |           | 0.0500 | 0.0509 |           | mg/L |   | 101  | 75 - 125 | 2   | 20  |       |
| Lead       | <0.00021  |           | 0.505  | 0.501  |           | mg/L |   | 99   | 75 - 125 | 3   | 20  |       |
| Lithium    | <0.0020   |           | 0.500  | 0.482  |           | mg/L |   | 96   | 75 - 125 | 3   | 20  |       |
| Molybdenum | <0.00086  |           | 0.100  | 0.104  |           | mg/L |   | 104  | 75 - 125 | 3   | 20  |       |
| Selenium   | <0.00099  |           | 0.100  | 0.104  |           | mg/L |   | 104  | 75 - 125 | 2   | 20  |       |
| Thallium   | <0.00026  |           | 0.0500 | 0.0475 |           | mg/L |   | 95   | 75 - 125 | 3   | 20  |       |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID:** MB 680-762809/1-A

**Matrix:** Water

**Analysis Batch:** 763201

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 762809

| Analyte | MB        | MB        | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
|         | Result    | Qualifier |         |          |      |   |                |                |         |
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 08:17 | 02/10/23 16:08 | 1       |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 680-762809/2-A**

**Matrix: Water**

**Analysis Batch: 763201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 762809**

| Analyte |  | Spike   | LCS     | LCS       | Unit | D | %Rec | Limits   |  |
|---------|--|---------|---------|-----------|------|---|------|----------|--|
|         |  | Added   | Result  | Qualifier |      |   | 95   |          |  |
| Mercury |  | 0.00250 | 0.00237 |           | mg/L |   | 95   | 80 - 120 |  |

**Lab Sample ID: 680-230306-A-6-E MS**

**Matrix: Water**

**Analysis Batch: 763201**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 762809**

| Analyte | Sample    | Sample    | Spike   | MS       | MS        | Unit | D | %Rec | Limits   |  |
|---------|-----------|-----------|---------|----------|-----------|------|---|------|----------|--|
|         | Result    | Qualifier | Added   | Result   | Qualifier |      |   | 91   |          |  |
| Mercury | <0.000080 |           | 0.00100 | 0.000909 |           | mg/L |   | 91   | 80 - 120 |  |

**Lab Sample ID: 680-230306-A-6-F MSD**

**Matrix: Water**

**Analysis Batch: 763201**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 762809**

| Analyte | Sample    | Sample    | Spike   | MSD      | MSD       | Unit | D | %Rec | RPD      | Limit |
|---------|-----------|-----------|---------|----------|-----------|------|---|------|----------|-------|
|         | Result    | Qualifier | Added   | Result   | Qualifier |      |   | 91   |          |       |
| Mercury | <0.000080 |           | 0.00100 | 0.000912 |           | mg/L |   | 91   | 80 - 120 | 0 20  |

**Lab Sample ID: MB 680-762884/1-A**

**Matrix: Water**

**Analysis Batch: 763358**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 762884**

| Analyte | MB        | MB        | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
|         | Result    | Qualifier |         |          |      |   |                |                |         |
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 02/10/23 13:31 | 02/14/23 10:47 | 1       |

**Lab Sample ID: LCS 680-762884/2-A**

**Matrix: Water**

**Analysis Batch: 763358**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 762884**

| Analyte | Spike   | LCS     | LCS       | Unit | D | %Rec | Limits   |  |
|---------|---------|---------|-----------|------|---|------|----------|--|
|         | Added   | Result  | Qualifier |      |   | 98   |          |  |
| Mercury | 0.00250 | 0.00246 |           | mg/L |   | 98   | 80 - 120 |  |

**Lab Sample ID: 680-230283-H-2-C MS**

**Matrix: Water**

**Analysis Batch: 763358**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 762884**

| Analyte | Sample    | Sample    | Spike   | MS       | MS        | Unit | D | %Rec | Limits   |  |
|---------|-----------|-----------|---------|----------|-----------|------|---|------|----------|--|
|         | Result    | Qualifier | Added   | Result   | Qualifier |      |   | 96   |          |  |
| Mercury | <0.000080 |           | 0.00100 | 0.000958 |           | mg/L |   | 96   | 80 - 120 |  |

**Lab Sample ID: 680-230283-H-2-D MSD**

**Matrix: Water**

**Analysis Batch: 763358**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 762884**

| Analyte | Sample    | Sample    | Spike   | MSD      | MSD       | Unit | D | %Rec | RPD      | Limit |
|---------|-----------|-----------|---------|----------|-----------|------|---|------|----------|-------|
|         | Result    | Qualifier | Added   | Result   | Qualifier |      |   | 98   |          |       |
| Mercury | <0.000080 |           | 0.00100 | 0.000978 |           | mg/L |   | 98   | 80 - 120 | 2 20  |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

**Lab Sample ID: MB 680-762877/1**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762877**

| Analyte                | MB<br>Result | MB<br>Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10          |                 | 10 | 10  | mg/L |   |          | 02/10/23 13:00 | 1       |

**Lab Sample ID: LCS 680-762877/2**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762877**

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D   | %Rec     | %Rec<br>Limits | RPD |
|------------------------|----------------|---------------|------------------|------|-----|----------|----------------|-----|
| Total Dissolved Solids | 2340           | 2380          |                  | mg/L | 102 | 80 - 120 |                |     |

**Lab Sample ID: LCSD 680-762877/3**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762877**

| Analyte                | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D   | %Rec     | %Rec<br>Limits | RPD | RPD<br>Limit |
|------------------------|----------------|----------------|-------------------|------|-----|----------|----------------|-----|--------------|
| Total Dissolved Solids | 2340           | 2390           |                   | mg/L | 102 | 80 - 120 |                | 1   | 25           |

**Lab Sample ID: 680-230302-A-16 DU**

**Client Sample ID: Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762877**

| Analyte                | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Total Dissolved Solids | 90               |                     | 86.0         |                 | mg/L |   | 5   | 5            |

**Lab Sample ID: MB 680-762903/1**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762903**

| Analyte                | MB<br>Result | MB<br>Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10          |                 | 10 | 10  | mg/L |   |          | 02/10/23 13:46 | 1       |

**Lab Sample ID: LCS 680-762903/2**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762903**

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D   | %Rec     | %Rec<br>Limits | RPD |
|------------------------|----------------|---------------|------------------|------|-----|----------|----------------|-----|
| Total Dissolved Solids | 2340           | 2410          |                  | mg/L | 103 | 80 - 120 |                |     |

**Lab Sample ID: LCSD 680-762903/3**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762903**

| Analyte                | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D   | %Rec     | %Rec<br>Limits | RPD | RPD<br>Limit |
|------------------------|----------------|----------------|-------------------|------|-----|----------|----------------|-----|--------------|
| Total Dissolved Solids | 2340           | 2370           |                   | mg/L | 101 | 80 - 120 |                | 2   | 25           |

**Lab Sample ID: 680-230304-10 DU**

**Client Sample ID: MCI-MGWC-7**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762903**

| Analyte                | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Total Dissolved Solids | 370              |                     | 388          |                 | mg/L |   | 4   | 5            |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

**Lab Sample ID: 680-230304-12 DU**

**Client Sample ID: MCI-AP1-FD-01**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 762903**

| Analyte                | Sample | Sample    | DU     | DU        | Unit | D | RPD | RPD | Limit |
|------------------------|--------|-----------|--------|-----------|------|---|-----|-----|-------|
|                        | Result | Qualifier | Result | Qualifier |      |   |     |     |       |
| Total Dissolved Solids | 440    |           | 432    |           | mg/L |   | 1   |     | 5     |

**Lab Sample ID: MB 680-763352/1**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763352**

| Analyte                | MB     | MB        | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
|                        | Result | Qualifier |    |     |      |   |          |                |         |
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 02/14/23 13:00 | 1       |

**Lab Sample ID: LCS 680-763352/2**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763352**

| Analyte                | Spike | LCS    | LCS       | Unit | D | %Rec | Limits   | RPD | Limit |
|------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                        | Added | Result | Qualifier |      |   |      |          |     |       |
| Total Dissolved Solids | 2340  | 2420   |           | mg/L |   | 103  | 80 - 120 |     |       |

**Lab Sample ID: LCSD 680-763352/3**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763352**

| Analyte                | Spike | LCSD   | LCSD      | Unit | D | %Rec | Limits   | RPD | Limit |
|------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                        | Added | Result | Qualifier |      |   |      |          |     |       |
| Total Dissolved Solids | 2340  | 2400   |           | mg/L |   | 103  | 80 - 120 | 1   | 25    |

**Lab Sample ID: 160-48887-D-1 DU**

**Client Sample ID: Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763352**

| Analyte                | Sample | Sample    | DU     | DU        | Unit | D | RPD | RPD | Limit |
|------------------------|--------|-----------|--------|-----------|------|---|-----|-----|-------|
|                        | Result | Qualifier | Result | Qualifier |      |   |     |     |       |
| Total Dissolved Solids | 500    |           | 494    |           | mg/L |   | 0.4 |     | 5     |

**Lab Sample ID: MB 680-763533/1**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763533**

| Analyte                | MB     | MB        | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
|                        | Result | Qualifier |    |     |      |   |          |                |         |
| Total Dissolved Solids | <10    |           | 10 | 10  | mg/L |   |          | 02/15/23 11:50 | 1       |

**Lab Sample ID: LCS 680-763533/2**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763533**

| Analyte                | Spike | LCS    | LCS       | Unit | D | %Rec | Limits   | RPD | Limit |
|------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                        | Added | Result | Qualifier |      |   |      |          |     |       |
| Total Dissolved Solids | 2340  | 2430   |           | mg/L |   | 104  | 80 - 120 |     |       |

**Lab Sample ID: LCSD 680-763533/3**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 763533**

| Analyte                | Spike | LCSD   | LCSD      | Unit | D | %Rec | Limits   | RPD | Limit |
|------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                        | Added | Result | Qualifier |      |   |      |          |     |       |
| Total Dissolved Solids | 2340  | 2370   |           | mg/L |   | 101  | 80 - 120 | 2   | 25    |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: 680-230367-D-1 DU

Client Sample ID: Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 763533

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Total Dissolved Solids | 170           |                  | 166       |              | mg/L |   | 5   | 5     |

# QC Association Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## HPLC/IC

### Analysis Batch: 762939

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method          | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 680-230304-1        | MCI-MGWA-10            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-2        | MCI-MGWA-11            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-3        | MCI-MGWA-5             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-4        | MCI-MGWA-6             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-5        | MCI-MGWA-6A            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-6        | MCI-MGWC-3             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-7        | MCI-MGWC-12            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-14       | MCI-AP1-FB-01          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-16       | MCI-AP1-EB-03          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| MB 680-762939/33    | Method Blank           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCS 680-762939/34   | Lab Control Sample     | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCSD 680-762939/35  | Lab Control Sample Dup | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230302-D-25 MS  | Matrix Spike           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230302-D-25 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 300.0-1993 R2.1 |            |

### Analysis Batch: 762940

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method          | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-230304-8       | MCI-MGWC-1             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-9       | MCI-MGWC-2             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-10      | MCI-MGWC-7             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-11      | MCI-MGWC-8             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-12      | MCI-AP1-FD-01          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-13      | MCI-AP1-FD-02          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-15      | MCI-AP1-FB-02          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-17      | MCI-AP1-EB-04          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| MB 680-762940/63   | Method Blank           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCS 680-762940/64  | Lab Control Sample     | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCSD 680-762940/65 | Lab Control Sample Dup | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-8 MS    | MCI-MGWC-1             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-8 MSD   | MCI-MGWC-1             | Total/NA  | Water  | 300.0-1993 R2.1 |            |

### Analysis Batch: 763601

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method          | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-230304-11 - DL | MCI-MGWC-8             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230304-13 - DL | MCI-AP1-FD-02          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| MB 680-763601/11   | Method Blank           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCS 680-763601/12  | Lab Control Sample     | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCSD 680-763601/13 | Lab Control Sample Dup | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230370-R-2 MS  | Matrix Spike           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-230370-R-2 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 300.0-1993 R2.1 |            |

## Metals

### Prep Batch: 762796

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-230304-1  | MCI-MGWA-10      | Total Recoverable | Water  | 3005A  |            |
| 680-230304-2  | MCI-MGWA-11      | Total Recoverable | Water  | 3005A  |            |
| 680-230304-3  | MCI-MGWA-5       | Total Recoverable | Water  | 3005A  |            |
| 680-230304-4  | MCI-MGWA-6       | Total Recoverable | Water  | 3005A  |            |
| 680-230304-5  | MCI-MGWA-6A      | Total Recoverable | Water  | 3005A  |            |
| 680-230304-6  | MCI-MGWC-3       | Total Recoverable | Water  | 3005A  |            |

# QC Association Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## Metals (Continued)

### Prep Batch: 762796 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|------------------------|-------------------|--------|--------|------------|
| 680-230304-7       | MCI-MGWC-12            | Total Recoverable | Water  | 3005A  | 1          |
| 680-230304-8       | MCI-MGWC-1             | Total Recoverable | Water  | 3005A  | 2          |
| 680-230304-9       | MCI-MGWC-2             | Total Recoverable | Water  | 3005A  | 3          |
| 680-230304-10      | MCI-MGWC-7             | Total Recoverable | Water  | 3005A  | 4          |
| 680-230304-11      | MCI-MGWC-8             | Total Recoverable | Water  | 3005A  | 5          |
| 680-230304-12      | MCI-AP1-FD-01          | Total Recoverable | Water  | 3005A  | 6          |
| 680-230304-13      | MCI-AP1-FD-02          | Total Recoverable | Water  | 3005A  | 7          |
| 680-230304-14      | MCI-AP1-FB-01          | Total Recoverable | Water  | 3005A  | 8          |
| 680-230304-15      | MCI-AP1-FB-02          | Total Recoverable | Water  | 3005A  | 9          |
| 680-230304-16      | MCI-AP1-EB-03          | Total Recoverable | Water  | 3005A  | 10         |
| MB 680-762796/1-A  | Method Blank           | Total Recoverable | Water  | 3005A  | 11         |
| LCS 680-762796/2-A | Lab Control Sample     | Total Recoverable | Water  | 3005A  | 12         |
| 752-2580-A-5-E MS  | Matrix Spike           | Total Recoverable | Water  | 3005A  |            |
| 752-2580-A-5-F MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 3005A  |            |

### Prep Batch: 762798

| Lab Sample ID         | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-------------------|--------|--------|------------|
| 680-230304-17         | MCI-AP1-EB-04          | Total Recoverable | Water  | 3005A  | 1          |
| MB 680-762798/1-A     | Method Blank           | Total Recoverable | Water  | 3005A  | 2          |
| LCS 680-762798/2-A    | Lab Control Sample     | Total Recoverable | Water  | 3005A  | 3          |
| 680-230302-C-21-B MS  | Matrix Spike           | Total Recoverable | Water  | 3005A  | 4          |
| 680-230302-C-21-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 3005A  | 5          |

### Prep Batch: 762809

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-230304-1         | MCI-MGWA-10            | Total/NA  | Water  | 7470A  | 1          |
| 680-230304-2         | MCI-MGWA-11            | Total/NA  | Water  | 7470A  | 2          |
| 680-230304-3         | MCI-MGWA-5             | Total/NA  | Water  | 7470A  | 3          |
| 680-230304-4         | MCI-MGWA-6             | Total/NA  | Water  | 7470A  | 4          |
| 680-230304-5         | MCI-MGWA-6A            | Total/NA  | Water  | 7470A  | 5          |
| 680-230304-6         | MCI-MGWC-3             | Total/NA  | Water  | 7470A  | 6          |
| 680-230304-7         | MCI-MGWC-12            | Total/NA  | Water  | 7470A  | 7          |
| 680-230304-8         | MCI-MGWC-1             | Total/NA  | Water  | 7470A  | 8          |
| 680-230304-9         | MCI-MGWC-2             | Total/NA  | Water  | 7470A  | 9          |
| 680-230304-10        | MCI-MGWC-7             | Total/NA  | Water  | 7470A  | 10         |
| 680-230304-11        | MCI-MGWC-8             | Total/NA  | Water  | 7470A  | 11         |
| MB 680-762809/1-A    | Method Blank           | Total/NA  | Water  | 7470A  | 12         |
| LCS 680-762809/2-A   | Lab Control Sample     | Total/NA  | Water  | 7470A  |            |
| 680-230306-A-6-E MS  | Matrix Spike           | Total/NA  | Water  | 7470A  |            |
| 680-230306-A-6-F MSD | Matrix Spike Duplicate | Total/NA  | Water  | 7470A  |            |

### Prep Batch: 762884

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-230304-12      | MCI-AP1-FD-01      | Total/NA  | Water  | 7470A  | 1          |
| 680-230304-13      | MCI-AP1-FD-02      | Total/NA  | Water  | 7470A  | 2          |
| 680-230304-14      | MCI-AP1-FB-01      | Total/NA  | Water  | 7470A  | 3          |
| 680-230304-15      | MCI-AP1-FB-02      | Total/NA  | Water  | 7470A  | 4          |
| 680-230304-16      | MCI-AP1-EB-03      | Total/NA  | Water  | 7470A  | 5          |
| 680-230304-17      | MCI-AP1-EB-04      | Total/NA  | Water  | 7470A  | 6          |
| MB 680-762884/1-A  | Method Blank       | Total/NA  | Water  | 7470A  | 7          |
| LCS 680-762884/2-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 8          |

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# QC Association Summary

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

## Metals (Continued)

### Prep Batch: 762884 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-230283-H-2-C MS  | Matrix Spike           | Total/NA  | Water  | 7470A  |            |
| 680-230283-H-2-D MSD | Matrix Spike Duplicate | Total/NA  | Water  | 7470A  |            |

### Analysis Batch: 762951

| Lab Sample ID         | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-------------------|--------|--------|------------|
| 680-230304-1          | MCI-MGWA-10            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-2          | MCI-MGWA-11            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-3          | MCI-MGWA-5             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-4          | MCI-MGWA-6             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-5          | MCI-MGWA-6A            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-6          | MCI-MGWC-3             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-7          | MCI-MGWC-12            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-8          | MCI-MGWC-1             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-9          | MCI-MGWC-2             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-10         | MCI-MGWC-7             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-11         | MCI-MGWC-8             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-12         | MCI-AP1-FD-01          | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-13         | MCI-AP1-FD-02          | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-14         | MCI-AP1-FB-01          | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-15         | MCI-AP1-FB-02          | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-16         | MCI-AP1-EB-03          | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-17         | MCI-AP1-EB-04          | Total Recoverable | Water  | 6020B  | 762798     |
| MB 680-762796/1-A     | Method Blank           | Total Recoverable | Water  | 6020B  | 762796     |
| MB 680-762798/1-A     | Method Blank           | Total Recoverable | Water  | 6020B  | 762798     |
| LCS 680-762796/2-A    | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 762796     |
| LCS 680-762798/2-A    | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 762798     |
| 680-230302-C-21-B MS  | Matrix Spike           | Total Recoverable | Water  | 6020B  | 762798     |
| 680-230302-C-21-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 6020B  | 762798     |
| 752-2580-A-5-E MS     | Matrix Spike           | Total Recoverable | Water  | 6020B  | 762796     |
| 752-2580-A-5-F MSD    | Matrix Spike Duplicate | Total Recoverable | Water  | 6020B  | 762796     |

### Analysis Batch: 763201

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-230304-1         | MCI-MGWA-10            | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-2         | MCI-MGWA-11            | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-3         | MCI-MGWA-5             | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-4         | MCI-MGWA-6             | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-5         | MCI-MGWA-6A            | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-6         | MCI-MGWC-3             | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-7         | MCI-MGWC-12            | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-8         | MCI-MGWC-1             | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-9         | MCI-MGWC-2             | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-10        | MCI-MGWC-7             | Total/NA  | Water  | 7470A  | 762809     |
| 680-230304-11        | MCI-MGWC-8             | Total/NA  | Water  | 7470A  | 762809     |
| MB 680-762809/1-A    | Method Blank           | Total/NA  | Water  | 7470A  | 762809     |
| LCS 680-762809/2-A   | Lab Control Sample     | Total/NA  | Water  | 7470A  | 762809     |
| 680-230306-A-6-E MS  | Matrix Spike           | Total/NA  | Water  | 7470A  | 762809     |
| 680-230306-A-6-F MSD | Matrix Spike Duplicate | Total/NA  | Water  | 7470A  | 762809     |

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## Metals

### Analysis Batch: 763249

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-230304-5  | MCI-MGWA-6A      | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-6  | MCI-MGWC-3       | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-7  | MCI-MGWC-12      | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-8  | MCI-MGWC-1       | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-9  | MCI-MGWC-2       | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-10 | MCI-MGWC-7       | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-11 | MCI-MGWC-8       | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-12 | MCI-AP1-FD-01    | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-13 | MCI-AP1-FD-02    | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-14 | MCI-AP1-FB-01    | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-15 | MCI-AP1-FB-02    | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-16 | MCI-AP1-EB-03    | Total Recoverable | Water  | 6020B  | 762796     |

### Analysis Batch: 763358

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-230304-12        | MCI-AP1-FD-01          | Total/NA  | Water  | 7470A  | 762884     |
| 680-230304-13        | MCI-AP1-FD-02          | Total/NA  | Water  | 7470A  | 762884     |
| 680-230304-14        | MCI-AP1-FB-01          | Total/NA  | Water  | 7470A  | 762884     |
| 680-230304-15        | MCI-AP1-FB-02          | Total/NA  | Water  | 7470A  | 762884     |
| 680-230304-16        | MCI-AP1-EB-03          | Total/NA  | Water  | 7470A  | 762884     |
| 680-230304-17        | MCI-AP1-EB-04          | Total/NA  | Water  | 7470A  | 762884     |
| MB 680-762884/1-A    | Method Blank           | Total/NA  | Water  | 7470A  | 762884     |
| LCS 680-762884/2-A   | Lab Control Sample     | Total/NA  | Water  | 7470A  | 762884     |
| 680-230283-H-2-C MS  | Matrix Spike           | Total/NA  | Water  | 7470A  | 762884     |
| 680-230283-H-2-D MSD | Matrix Spike Duplicate | Total/NA  | Water  | 7470A  | 762884     |

## General Chemistry

### Analysis Batch: 762877

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-230304-15      | MCI-AP1-FB-02          | Total/NA  | Water  | 2540C-2011 |            |
| MB 680-762877/1    | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-762877/2   | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-762877/3  | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 680-230302-A-16 DU | Duplicate              | Total/NA  | Water  | 2540C-2011 |            |

### Analysis Batch: 762903

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 680-230304-1  | MCI-MGWA-10      | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-2  | MCI-MGWA-11      | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-3  | MCI-MGWA-5       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-4  | MCI-MGWA-6       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-5  | MCI-MGWA-6A      | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-6  | MCI-MGWC-3       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-7  | MCI-MGWC-12      | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-8  | MCI-MGWC-1       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-9  | MCI-MGWC-2       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-10 | MCI-MGWC-7       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-11 | MCI-MGWC-8       | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-12 | MCI-AP1-FD-01    | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-13 | MCI-AP1-FD-02    | Total/NA  | Water  | 2540C-2011 |            |

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## General Chemistry (Continued)

### Analysis Batch: 762903 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-230304-14     | MCI-AP1-FB-01          | Total/NA  | Water  | 2540C-2011 |            |
| MB 680-762903/1   | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-762903/2  | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-762903/3 | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-10 DU  | MCI-MGWC-7             | Total/NA  | Water  | 2540C-2011 |            |
| 680-230304-12 DU  | MCI-AP1-FD-01          | Total/NA  | Water  | 2540C-2011 |            |

### Analysis Batch: 763352

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-230304-16     | MCI-AP1-EB-03          | Total/NA  | Water  | 2540C-2011 |            |
| MB 680-763352/1   | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-763352/2  | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-763352/3 | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 160-48887-D-1 DU  | Duplicate              | Total/NA  | Water  | 2540C-2011 |            |

### Analysis Batch: 763533

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-230304-17     | MCI-AP1-EB-04          | Total/NA  | Water  | 2540C-2011 |            |
| MB 680-763533/1   | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-763533/2  | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-763533/3 | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 680-230367-D-1 DU | Duplicate              | Total/NA  | Water  | 2540C-2011 |            |

## Field Service / Mobile Lab

### Analysis Batch: 763021

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 680-230304-1  | MCI-MGWA-10      | Total/NA  | Water  | Field Sampling |            |
| 680-230304-2  | MCI-MGWA-11      | Total/NA  | Water  | Field Sampling |            |
| 680-230304-3  | MCI-MGWA-5       | Total/NA  | Water  | Field Sampling |            |
| 680-230304-4  | MCI-MGWA-6       | Total/NA  | Water  | Field Sampling |            |
| 680-230304-5  | MCI-MGWA-6A      | Total/NA  | Water  | Field Sampling |            |
| 680-230304-6  | MCI-MGWC-3       | Total/NA  | Water  | Field Sampling |            |
| 680-230304-7  | MCI-MGWC-12      | Total/NA  | Water  | Field Sampling |            |
| 680-230304-8  | MCI-MGWC-1       | Total/NA  | Water  | Field Sampling |            |
| 680-230304-9  | MCI-MGWC-2       | Total/NA  | Water  | Field Sampling |            |
| 680-230304-10 | MCI-MGWC-7       | Total/NA  | Water  | Field Sampling |            |
| 680-230304-11 | MCI-MGWC-8       | Total/NA  | Water  | Field Sampling |            |

## Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

### Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-230304-1

Matrix: Water

Date Collected: 02/07/23 10:15

Date Received: 02/09/23 10:01

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 21:09       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 14:59       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 16:46       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/07/23 10:15       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

### Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-230304-2

Matrix: Water

Date Collected: 02/07/23 12:10

Date Received: 02/09/23 10:01

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 21:22       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:03       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 16:48       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/07/23 12:10       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

### Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-230304-3

Matrix: Water

Date Collected: 02/07/23 13:40

Date Received: 02/09/23 10:01

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 21:35       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:07       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 16:56       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |

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## Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

### **Client Sample ID: MCI-MGWA-5**

Date Collected: 02/07/23 13:40

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-3**

Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540C-2011     |     | 1          | 200 mL         | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
| Total/NA  | Analysis   | Field Sampling |     | 1          |                |              | 763021       | 02/07/23 13:40       | T1C     | EET SAV |

### **Client Sample ID: MCI-MGWA-6**

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-4**

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 21:48       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:11       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 16:58       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/07/23 12:05       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWA-6A**

Date Collected: 02/07/23 10:40

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-5**

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 22:01       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:23       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 763249       | 02/13/23 13:15       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:01       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/07/23 10:40       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWC-3**  
**Date Collected: 02/07/23 14:20**  
**Date Received: 02/09/23 10:01**

**Lab Sample ID: 680-230304-6**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst UI | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|------------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 22:15       |            | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |            |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR         | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:27       | BWR        | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |            |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR         | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 763249       | 02/13/23 13:19       | BWR        | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |            |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL        | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:03       | JKL        | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |            |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG         | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |            |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/07/23 14:20       | T1C        | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |            |         |

**Client Sample ID: MCI-MGWC-12**

**Lab Sample ID: 680-230304-7**

**Matrix: Water**

**Date Collected: 02/07/23 15:05**  
**Date Received: 02/09/23 10:01**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst UI | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|------------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 22:28       |            | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |            |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR         | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:31       | BWR        | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |            |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR         | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 763249       | 02/13/23 13:23       | BWR        | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |            |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL        | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:06       | JKL        | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |            |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 762903       | 02/10/23 13:46       | PG         | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |            |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/07/23 15:05       | T1C        | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |            |         |

**Client Sample ID: MCI-MGWC-1**

**Lab Sample ID: 680-230304-8**

**Matrix: Water**

**Date Collected: 02/08/23 10:00**  
**Date Received: 02/09/23 10:01**

| Prep Type | Batch Type | Batch Method        | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst UI | Lab     |
|-----------|------------|---------------------|-----|------------|----------------|--------------|--------------|----------------------|------------|---------|
| Total/NA  | Analysis   | 300.0-1993 R2.1     |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 00:00       |            | EET SAV |
|           |            | Instrument ID: CICK |     |            |                |              |              |                      |            |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

**Client Sample ID: MCI-MGWC-1**  
**Date Collected: 02/08/23 10:00**  
**Date Received: 02/09/23 10:01**

**Lab Sample ID: 680-230304-8**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:35       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 4          |                |              | 763249       | 02/13/23 13:27       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:08       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/08/23 10:00       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-2**  
**Date Collected: 02/08/23 09:55**  
**Date Received: 02/09/23 10:01**

**Lab Sample ID: 680-230304-9**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 00:40       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:39       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 4          |                |              | 763249       | 02/13/23 13:30       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:11       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/08/23 09:55       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-7**  
**Date Collected: 02/08/23 11:50**  
**Date Received: 02/09/23 10:01**

**Lab Sample ID: 680-230304-10**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method          | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1       |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 00:53       | UI      | EET SAV |
|                   |            | Instrument ID: CICK   |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                 |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                 |     | 1          |                |              | 762951       | 02/10/23 15:43       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC |     |            |                |              |              |                      |         |         |

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## Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

### **Client Sample ID: MCI-MGWC-7**

Date Collected: 02/08/23 11:50

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-10**

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 4          |                |              | 763249       | 02/13/23 13:34       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:14       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/08/23 11:50       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWC-8**

Date Collected: 02/08/23 13:30

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-11**

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 01:06       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 300.0-1993 R2.1            | DL  | 5          | 5 mL           | 5 mL         | 763601       | 02/15/23 22:11       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:47       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 10         |                |              | 763249       | 02/13/23 13:38       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762809       | 02/10/23 08:21       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763201       | 02/10/23 17:16       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | Field Sampling             |     | 1          |                |              | 763021       | 02/08/23 13:30       | T1C     | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-AP1-FD-01**

Date Collected: 02/08/23 00:00

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-12**

Matrix: Water

| Prep Type         | Batch Type | Batch Method          | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1       |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 01:19       | UI      | EET SAV |
|                   |            | Instrument ID: CICK   |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                 |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                 |     | 1          |                |              | 762951       | 02/10/23 15:51       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## Client Sample ID: MCI-AP1-FD-01

Date Collected: 02/08/23 00:00

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-12

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 4          |                |              | 763249       | 02/13/23 13:42       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762884       | 02/10/23 13:31       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763358       | 02/14/23 11:05       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

## Client Sample ID: MCI-AP1-FD-02

Date Collected: 02/08/23 00:00

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-13

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 01:32       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 300.0-1993 R2.1            | DL  | 5          | 5 mL           | 5 mL         | 763601       | 02/15/23 22:24       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:55       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 10         |                |              | 763249       | 02/13/23 13:46       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762884       | 02/10/23 13:31       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763358       | 02/14/23 11:07       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

## Client Sample ID: MCI-AP1-FB-01

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-14

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 22:41       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 15:59       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 763249       | 02/13/23 13:50       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762884       | 02/10/23 13:31       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763358       | 02/14/23 11:10       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

## **Client Sample ID: MCI-AP1-FB-01**

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-14**

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540C-2011   |     | 1          | 200 mL         | 200 mL       | 762903       | 02/10/23 13:46       | PG      | EET SAV |

## **Client Sample ID: MCI-AP1-FB-02**

Date Collected: 02/08/23 10:25

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-15**

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 01:46       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 16:12       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 763249       | 02/13/23 14:02       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762884       | 02/10/23 13:31       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763358       | 02/14/23 11:12       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 762877       | 02/10/23 13:00       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

## **Client Sample ID: MCI-AP1-EB-03**

Date Collected: 02/07/23 15:40

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-16**

Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762939       | 02/11/23 22:54       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 16:16       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 763249       | 02/13/23 14:06       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSD      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762884       | 02/10/23 13:31       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763358       | 02/14/23 11:15       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 763352       | 02/14/23 13:00       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company

Job ID: 680-230304-1

Project/Site: Plant McIntosh Ash Pond 1

**Client Sample ID: MCI-AP1-EB-04****Lab Sample ID: 680-230304-17**

Date Collected: 02/08/23 11:45

Matrix: Water

Date Received: 02/09/23 10:01

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 762940       | 02/12/23 01:59       | UI      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 762798       | 02/10/23 05:56       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 762951       | 02/10/23 22:30       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 762884       | 02/10/23 13:31       | JKL     | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 763358       | 02/14/23 11:17       | JKL     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 763533       | 02/15/23 11:50       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Accreditation/Certification Summary

Client: Southern Company

Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

### Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Florida   | NELAP   | E87052                | 06-30-23        |
| Georgia   | State   | E87052                | 06-30-23        |

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## Method Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-1

| Method          | Method Description                                 | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 300.0-1993 R2.1 | Anions, Ion Chromatography                         | MCAWW    | EET SAV    |
| 6020B           | Metals (ICP/MS)                                    | SW846    | EET SAV    |
| 7470A           | Mercury (CVAA)                                     | SW846    | EET SAV    |
| 2540C-2011      | Total Dissolved Solids (Dried at 180 °C)           | SM       | EET SAV    |
| Field Sampling  | Field Sampling                                     | EPA      | EET SAV    |
| 3005A           | Preparation, Total Recoverable or Dissolved Metals | SW846    | EET SAV    |
| 7470A           | Preparation, Mercury                               | SW846    | EET SAV    |

### Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

### Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## **Chain of Custody Record**

|   |  |                                   |                       |   |  |  |                            |                                 |  |  |  |  |   |
|---|--|-----------------------------------|-----------------------|---|--|--|----------------------------|---------------------------------|--|--|--|--|---|
| Client Information  |  | Sampler: <u>A Schmitker</u> ACC   |                       | Lab PM: Fuller David  |  | Carrier Tracking No(s).  |                            | COC No:                         |  |  |  |  |   |
| Client Contact:<br>SCS Contacts   |  | Phone: <u>770-594-5998</u>        |                       | E-Mail: <u>david.fuller@et.eurofinsus.com</u>                           |  |  |                            | Page: <u>1 of 2</u>             |  |  |  |  |   |
| Company:<br>GA Power  |  | Analysis Requested                |                       |   |  |  |                            |                                 |  |  |  |  |   |
| Address:<br>241 Ralph McGill Blvd SE  |  | Due Date Requested.               |                       |   |  |  |                            |                                 |  |  |  |  |   |
| City:<br>Atlanta  |  | TAT Requested (days)              |                       |   |  |  |                            |                                 |  |  |  |  |   |
| State Zip:<br>GA, 30308   |  | <u>Standard</u>                   |                       |   |  |  |                            |                                 |  |  |  |  |   |
| Phone:<br>404-506-7116(Tel)   |  | Lab Project #:<br><u>68027747</u> |                       |   |  |  |                            |                                 |  |  |  |  |   |
| Email:<br>SCS Contacts / ACC Contacts   |  | PO #:                             |                       |   |  |  |                            |                                 |  |  |  |  |   |
| Project Name:<br>Plant McIntosh - Ash Pond 1  |  | Project #:                        |                       |   |  |  |                            |                                 |  |  |  |  |   |
| Site:<br>Georgia  |  | SSOW#:                            |                       |   |  |  |                            |                                 |  |  |  |  |   |
| Sample Identification   |  | Sample Date<br>(mm/dd/yy)         | Sample Time<br>(hhmm) | Sample Type<br>(C=Comp,<br>G=grab)                                      | Matrix<br>(WG=ground<br>water WS=surface<br>water WC=quality<br>control) | Field Filtered Sample (Yes or No)  | Perform MS/MSD (Yes or No) | App III Metals (B, Ca)          | Cl, F, SO <sub>4</sub> , TDS<br>(EPA 300.0 & SM 2540C) | Ap IV Metals<br>(Si, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti) | Radium 226 & 228<br>(SN-846 9315/9320) | Total Number of containers                         | Task_Code:<br><u>MCI-CCR-ASSMT-2023S1</u> |
|   |  |                                   |                       |   | <input checked="" type="checkbox"/>                                      | <input checked="" type="checkbox"/>  | D                          | I                               | D  | D  |  | Special Instructions/Note<br>Full APP III + APP IV |   |
| MCI-MGWA-10   |  | 02/07/23                          | 1015                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 5.46   |   |
| MCI-MGWA-11   |  | 02/07/23                          | 1210                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.72   |   |
| MCI-MGWA-5  |  | 02/07/23                          | 1340                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.85   |   |
| MCI-MGWA-6  |  | 02/07/23                          | 1205                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.13   |   |
| MCI-MGWA-6A   |  | 02/07/23                          | 1040                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.24   |   |
| MCI-MGWNC-3   |  | 02/07/23                          | 1420                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.01   |   |
| MCI-MGWNC-12  |  | 02/07/23                          | 1505                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 6.95   |   |
| MCI-MGWNC-1   |  | 02/08/23                          | 1000                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.28   |   |
| MCI-MGWNC-2   |  | 02/08/23                          | 0955                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.44   |   |
| MCI-MGWNC-7   |  | 02/08/23                          | 1150                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 7.43   |   |
| MCI-MGWNC-8   |  | 02/08/23                          | 1330                  | G   | WG   | N  | N                          | ✓                               | ✓  | ✓  |  | pH= 6.76   |   |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |                                   |                       |   |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                            |                                 |  |  |  |  |   |
| Deliverable Requested I II III IV Other (specify)   |  |                                   |                       |   |  | Special Instructions/QC Requirements.  |                            |                                 |  |  |  |  |   |
| Empty Kit Relinquished by:  |  | Date:                             |                       | Time  |  | Method of Shipment:  |                            |                                 |  |  |  |  |   |
| Relinquished by: <u>J. L.</u>   |  | Date/Time: <u>2-9-23 / 0845</u>   |                       | Company: <u>ACC</u>   |  | Received by: <u>Tony Johnson</u>   |                            | Date/Time: <u>2-9-23 / 0845</u> |  | Company: <u>ACC</u>  |  |  |   |
| Relinquished by: <u>J. L.</u>   |  | Date/Time: <u>2-9-23 / 1000</u>   |                       | Company: <u>ACC</u>   |  | Received by: <u>George</u>   |                            | Date/Time: <u>2-9-23 / 1001</u> |  | Company: <u></u>   |  |  |   |
| Relinquished by: <u>J. L.</u>   |  | Date/Time:                        |                       | Company:  |  | Received by:   |                            | Date/Time:                      |  | Company:   |  |  |   |
| Custody Seals Intact:<br>△ Yes △ No   |  | Custody Seal No                   |                       | Cooler Temperature(s) °C and Other Remarks: <u>37/37 2.6/2.0 21/2.1</u> |  |  |                            |                                 |  |  |  |  |   |

## Chain of Custody Record

|   |                                    |  |   |   |  |  |   |  |  |  |   |  |
|---|------------------------------------|--|---|---|--|--|---|--|--|--|---|--|
| <b>Client Information</b>                           |                                    | Sampler: <i>A Schmittker</i>             | ACC   | Lab PM: Fuller David                        | Carrier Tracking No(s)   | COC No:  |   |  |  |  |   |  |
| Client Contact:<br>SCS Contacts                     |                                    | Phone: <i>770 594 5993</i>               | E-Mail: <i>david.fuller@et.eurofinsus.com</i> | Page: <i>2 of 2</i>                         |  |  |   |  |  |  |   |  |
| Company:<br>GA Power                                |                                    | <b>Analysis Requested</b>                |   |   |  |  |   |  |  |  |   |  |
| Address:<br>241 Ralph McGill Blvd SE                |                                    | Due Date Requested                       |   |   |  |  |   |  |  |  |   |  |
| City:<br>Atlanta                                    |                                    | TAT Requested (days).<br><i>Standard</i> |   |   |  |  |   |  |  |  |   |  |
| State Zip:<br>GA, 30308                             |                                    |  |   |   |  |  |   |  |  |  |   |  |
| Phone:<br>404-506-7116(Tel)                         |                                    | Lab Project #: <b>68027747</b>           |   |   |  |  |   |  |  |  |   |  |
| Email:<br>SCS Contacts / ACC Contacts               |                                    | PO #:                                    |   |   |  |  |   |  |  |  |   |  |
| Project Name:<br>Plant McIntosh - Ash Pond 1        |                                    | Project #:                               |   |   |  |  |   |  |  |  |   |  |
| Site:<br>Georgia                                    |                                    | SSOW#:                                   |   |   |  |  |   |  |  |  |   |  |
| <b>Sample Identification</b>                        |                                    | Sample Date<br>(mm/dd/yy)                | Sample Time<br>(hhmm)                         | Sample Type<br>(C=comp,<br>G=grab)          | Matrix<br>(WG=ground<br>water WS=surface<br>water WQ=quality<br>control) | Field Filtered Sample (Yes or No)<br>Perform MS/MSD (Yes or No)                      | APP. III Metals (B, Ca)                             | Cl, F, SO <sub>4</sub> , TDS<br>(EPA 300.0 & SM 2540C) | App. IV Metals<br>(Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti) | Radium 226 & 228<br>(SW-846 9315/9320) | Total Number of containers                          | Preservation Codes:<br><br>A - HCL M - Hexane<br>B - NaOH N - None<br>C - Zn Acetate O - AsNaO2<br>D - Nitric Acid P - Na2O4S<br>E - NaHSO4 Q - Na2SO3<br>F - MeOH R - Na2S2O3<br>G - Amchlor T - TSP Dodecahydrate<br>H - Ascorbic Acid U - Acetone<br>I - Ice V - MCAA<br>J - DI Water K - EDTA<br>L - EDA W - pH 4-5<br>Z - other (specify) |
|   |                                    |  |   |   |  |  |   |  |  |  | Other:  |  |
|   |                                    |  |   |   |  |  |   |  |  |  | Task_Code<br><b>MCI-CCR-ASSMT-2023S1</b>            |  |
|   |                                    |  |   |   |  |  |   |  |  |  | Special Instructions/Note:<br>Full APP III + APP IV |  |
| MCI- AP1 - FD - 01                                  |                                    | <i>02/08/23</i>                          | /   | G   | WG   | N N  | ✓ ✓   | ✓  | ✓  |  | pH= NA  |  |
| MCI- AP1 - FD - 02                                  |                                    | <i>02/08/23</i>                          | /   | G   | WG   | N N  | ✓ ✓   |  | ✓  |  | pH= NA  |  |
| MCI- AP1 - FB - 01                                  |                                    | <i>02/07/23</i>                          | <i>1455</i>                                   | G   | WQ   | N N  | ✓ ✓   |  | ✓  |  | pH= NA  |  |
| MCI- AP1 - FB - 02                                  |                                    | <i>02/08/23</i>                          | <i>1025</i>                                   | G   | WQ   | N N  | ✓ ✓   |  | ✓  |  | pH= NA  |  |
| MCI- AP1 - EB - 03                                  |                                    | <i>02/07/23</i>                          | <i>1540</i>                                   | G   | WQ   | N N  | ✓ ✓   |  | ✓  |  | pH= NA  |  |
| MCI- AP1 - EB - 04                                  |                                    | <i>02/08/23</i>                          | <i>1145</i>                                   | G   | WQ   | N N  | ✓ ✓   |  | ✓  |  | pH= NA  |  |
| MCI-  |                                    |  |   | G   |  | N N  |   |  |  |  | pH=   |  |
| MCI-  |                                    |  |   | G   |  | N N  |   |  |  |  | pH=   |  |
| MCI-  |                                    |  |   | G   |  | N N  |   |  |  |  | pH=   |  |
| MCI-  |                                    |  |   | G   |  | N N  |   |  |  |  | pH=   |  |
| MCI-  |                                    |  |   | G   |  | N N  |   |  |  |  | pH=   |  |
| <b>Possible Hazard Identification</b>               |                                    |  |   |   |  | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |   |  |  |  |   |  |
| <input type="checkbox"/> Non-Hazard                 | <input type="checkbox"/> Flammable | <input type="checkbox"/> Skin Irritant   | <input type="checkbox"/> Poison B             | <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Radiological                                    | <input type="checkbox"/> Return To Client  | <input checked="" type="checkbox"/> Disposal By Lab | <input type="checkbox"/> Archive For                   | Months   |  |   |  |
| Deliverable Requested I II, III IV, Other (specify) |                                    |  |   |   |  | Special Instructions/QC Requirements   |   |  |  |  |   |  |
| Empty Kit Relinquished by:                          |                                    |  | Date:   | Time:                                       |  | Method of Shipment:  |   |  |  |  |   |  |
| Relinquished by: <i>J. Schmittker</i>               |                                    |  | Date/Time: <i>2/9/23 / 0845</i>               | Company: <i>ACC</i>                         |  | Received by: <i>J. Schmittker</i>  | Date/Time: <i>2/9/23 / 0845</i>                     |  | Company: <i>ACC</i>  |  |   |  |
| Relinquished by: <i>Tonya</i>                       |                                    |  | Date/Time: <i>2/9/23 / 1000</i>               | Company: <i>ACC</i>                         |  | Received by: <i>Tonya</i>  | Date/Time: <i>2/9/23 / 1000</i>                     |  | Company: <i>ACC</i>  |  |   |  |
| Relinquished by:                                    |                                    |  | Date/Time:                                    | Company:                                    |  | Received by:   | Date/Time:  |  | Company:   |  |   |  |
| Custody Seals Intact:<br>△ Yes △ No                 |                                    | Custody Seal No                          |   |   |  | Cooler Temperature(s) °C and Other Remarks.<br><i>3.7/3.7 2.6 2.1 / 2.1</i>          |   |  |  |  |   |  |

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230304-1

**Login Number: 230304**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Johnson, Corey M**

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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Generated 3/15/2023 12:39:55 PM

## JOB DESCRIPTION

Plant McIntosh Ash Pond 1

## JOB NUMBER

680-230304-2

# Eurofins Savannah

## Job Notes

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

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

## Authorization



Generated  
3/15/2023 12:39:55 PM

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

## Definitions/Glossary

Client: Southern Company

Job ID: 680-230304-2

Project/Site: Plant McIntosh Ash Pond 1

### Qualifiers

#### Rad

| Qualifier | Qualifier Description                           |
|-----------|---|
| U         | Result is less than the sample detection limit. |

### Glossary

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

## Sample Summary

Client: Southern Company  
 Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |    |
|---------------|------------------|--------|----------------|----------------|----|
| 680-230304-1  | MCI-MGWA-10      | Water  | 02/07/23 10:15 | 02/09/23 10:01 | 1  |
| 680-230304-2  | MCI-MGWA-11      | Water  | 02/07/23 12:10 | 02/09/23 10:01 | 2  |
| 680-230304-3  | MCI-MGWA-5       | Water  | 02/07/23 13:40 | 02/09/23 10:01 | 3  |
| 680-230304-4  | MCI-MGWA-6       | Water  | 02/07/23 12:05 | 02/09/23 10:01 | 4  |
| 680-230304-5  | MCI-MGWA-6A      | Water  | 02/07/23 10:40 | 02/09/23 10:01 | 5  |
| 680-230304-6  | MCI-MGWC-3       | Water  | 02/07/23 14:20 | 02/09/23 10:01 | 6  |
| 680-230304-7  | MCI-MGWC-12      | Water  | 02/07/23 15:05 | 02/09/23 10:01 | 7  |
| 680-230304-8  | MCI-MGWC-1       | Water  | 02/08/23 10:00 | 02/09/23 10:01 | 8  |
| 680-230304-9  | MCI-MGWC-2       | Water  | 02/08/23 09:55 | 02/09/23 10:01 | 9  |
| 680-230304-10 | MCI-MGWC-7       | Water  | 02/08/23 11:50 | 02/09/23 10:01 | 10 |
| 680-230304-11 | MCI-MGWC-8       | Water  | 02/08/23 13:30 | 02/09/23 10:01 | 11 |
| 680-230304-12 | MCI-AP1-FD-01    | Water  | 02/08/23 00:00 | 02/09/23 10:01 | 12 |
| 680-230304-13 | MCI-AP1-FD-02    | Water  | 02/08/23 00:00 | 02/09/23 10:01 | 13 |
| 680-230304-14 | MCI-AP1-FB-01    | Water  | 02/07/23 14:55 | 02/09/23 10:01 |    |
| 680-230304-15 | MCI-AP1-FB-02    | Water  | 02/08/23 10:25 | 02/09/23 10:01 |    |
| 680-230304-16 | MCI-AP1-EB-03    | Water  | 02/07/23 15:40 | 02/09/23 10:01 |    |
| 680-230304-17 | MCI-AP1-EB-04    | Water  | 02/08/23 11:45 | 02/09/23 10:01 |    |

# Case Narrative

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## Job ID: 680-230304-2

### Laboratory: Eurofins Savannah

#### Narrative

#### Job Narrative 680-230304-2

#### Receipt

The samples were received on 2/9/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.6°C, 3.1°C and 3.7°C

#### Gas Flow Proportional Counter

Method 9315\_Ra226: Radium-226 batch 600299Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference DateMCI-MGWA-10 (680-230304-1), MCI-MGWA-11 (680-230304-2), MCI-MGWA-5 (680-230304-3), MCI-MGWA-6 (680-230304-4), MCI-MGWA-6A (680-230304-5), MCI-MGWC-3 (680-230304-6), MCI-MGWC-12 (680-230304-7), MCI-MGWC-1 (680-230304-8), MCI-MGWC-2 (680-230304-9), MCI-MGWC-7 (680-230304-10), MCI-MGWC-8 (680-230304-11), MCI-AP1-FD-01 (680-230304-12), MCI-AP1-FD-02 (680-230304-13), MCI-AP1-FB-01 (680-230304-14), MCI-AP1-FB-02 (680-230304-15), MCI-AP1-EB-03 (680-230304-16), MCI-AP1-EB-04 (680-230304-17), (LCS 160-600299/2-A), (MB 160-600299/1-A) and (680-230304-B-1-A DU)

Method 9320\_Ra228: Radium-228 batch 600302Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MCI-MGWA-10 (680-230304-1), MCI-MGWA-11 (680-230304-2), MCI-MGWA-5 (680-230304-3), MCI-MGWA-6 (680-230304-4), MCI-MGWA-6A (680-230304-5), MCI-MGWC-3 (680-230304-6), MCI-MGWC-12 (680-230304-7), MCI-MGWC-1 (680-230304-8), MCI-MGWC-2 (680-230304-9), MCI-MGWC-7 (680-230304-10), MCI-MGWC-8 (680-230304-11), MCI-AP1-FD-01 (680-230304-12), MCI-AP1-FD-02 (680-230304-13), MCI-AP1-FB-01 (680-230304-14), MCI-AP1-FB-02 (680-230304-15), MCI-AP1-EB-03 (680-230304-16), MCI-AP1-EB-04 (680-230304-17), (LCS 160-600302/2-A), (MB 160-600302/1-A) and (680-230304-B-1-B DU)

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

#### Rad

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

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWA-10**  
Date Collected: 02/07/23 10:15  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-1**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 0.356  |           | 0.0990             | 0.104              | 1.00 | 0.0746 | pCi/L | 02/14/23 10:04 | 03/08/23 07:09 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.1   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:09 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.315  | U         | 0.288              | 0.290              | 1.00 | 0.456 | pCi/L | 02/14/23 10:24 | 02/20/23 12:18 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 95.1   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:18 | 1       |
| Y Carrier  | 88.2   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:18 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte         | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|-----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                 |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium | 0.671  |           | 0.305              | 0.308              | 5.00 | 0.456 | pCi/L |          | 03/08/23 15:29 | 1       |
| 226 + 228       |        |           |                    |                    |      |       |       |          |                |         |

**Client Sample ID: MCI-MGWA-11**

**Lab Sample ID: 680-230304-2**

Date Collected: 02/07/23 12:10

Matrix: Water

Date Received: 02/09/23 10:01

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 0.183  |           | 0.0791             | 0.0808             | 1.00 | 0.0850 | pCi/L | 02/14/23 10:04 | 03/08/23 07:09 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.7   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:09 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.675  |           | 0.374              | 0.379              | 1.00 | 0.539 | pCi/L | 02/14/23 10:24 | 02/20/23 12:20 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 93.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:20 | 1       |
| Y Carrier  | 87.5   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:20 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWA-11**  
Date Collected: 02/07/23 12:10  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-2**  
Matrix: Water

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 0.858  |           | 0.382              | 0.388              | 5.00 | 0.539 | pCi/L |          | 03/08/23 15:29 | 1       |

## Client Sample ID: MCI-MGWA-5

Date Collected: 02/07/23 13:40  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-3**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226     | 0.113  |           | 0.0679             | 0.0687             | 1.00 | 0.0857 | pCi/L | 02/14/23 10:04 | 03/08/23 07:09 | 1       |
| <i>Carrier</i> |        |           |                    |                    |      |        |       |                |                |         |
| Ba Carrier     | 88.0   |           | <i>Limits</i>      |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:09 | 1       |
|                |        |           |                    |                    |      |        |       |                |                |         |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result  | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|---------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228     | -0.0243 | U         | 0.315              | 0.315              | 1.00 | 0.590 | pCi/L | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| <i>Carrier</i> |         |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 88.0    |           | <i>Limits</i>      |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Y Carrier      | 85.6    |           | <i>Limits</i>      |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium 226<br>+ 228 | 0.0887 | U         | 0.322              | 0.322              | 5.00 | 0.590 | pCi/L |          | 03/08/23 15:29 | 1       |
|                              |        |           |                    |                    |      |       |       |          |                |         |

## Client Sample ID: MCI-MGWA-6

Date Collected: 02/07/23 12:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-4**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226     | 0.295  |           | 0.0943             | 0.0979             | 1.00 | 0.0771 | pCi/L | 02/14/23 10:04 | 03/08/23 07:11 | 1       |
| <i>Carrier</i> |        |           |                    |                    |      |        |       |                |                |         |
| Ba Carrier     | 90.0   |           | <i>Limits</i>      |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:11 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWA-6**  
Date Collected: 02/07/23 12:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-4**  
Matrix: Water

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |         |
| Radium-228     | 0.192  | U         | 0.308              | 0.308              | 1.00     | 0.524 | pCi/L | 02/14/23 10:24 | 02/20/23 12:20 | 1       |
| <b>Carrier</b> |        |           |                    |                    |          |       |       |                |                |         |
| Ba Carrier     | 90.0   | U         | <b>Limits</b>      |                    | 30 - 110 | 0.524 | pCi/L | Prepared       | Analyzed       | Dil Fac |
|                |        |           |                    |                    |          |       |       |                |                |         |
| Y Carrier      | 90.1   |           | 30 - 110           |                    |          |       |       | 02/14/23 10:24 | 02/20/23 12:20 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.487  | U         | 0.322              | 0.323              | 5.00 | 0.524 | pCi/L | 03/08/23 15:29 |          | 1       |

# Client Sample ID: MCI-MGWA-6A

Date Collected: 02/07/23 10:40  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-5**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL       | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|----------|--------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |        |       |                |                |         |
| Radium-226     | 0.506  | U         | 0.122              | 0.131              | 1.00     | 0.0839 | pCi/L | 02/14/23 10:04 | 03/08/23 07:11 | 1       |
| <b>Carrier</b> |        |           |                    |                    |          |        |       |                |                |         |
| Ba Carrier     | 86.3   | U         | <b>Limits</b>      |                    | 30 - 110 | 0.0839 | pCi/L | Prepared       | Analyzed       | Dil Fac |
|                |        |           |                    |                    |          |        |       |                |                |         |
| Y Carrier      | 87.1   |           | 30 - 110           |                    |          |        |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |         |
| Radium-228     | 0.195  | U         | 0.325              | 0.326              | 1.00     | 0.556 | pCi/L | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| <b>Carrier</b> |        |           |                    |                    |          |       |       |                |                |         |
| Ba Carrier     | 86.3   | U         | <b>Limits</b>      |                    | 30 - 110 | 0.556 | pCi/L | Prepared       | Analyzed       | Dil Fac |
|                |        |           |                    |                    |          |       |       |                |                |         |
| Y Carrier      | 87.1   |           | 30 - 110           |                    |          |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.701  | U         | 0.347              | 0.351              | 5.00 | 0.556 | pCi/L | 03/08/23 15:29 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWC-3**  
Date Collected: 02/07/23 14:20  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-6**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 1.39   |           | 0.194              | 0.231              | 1.00 | 0.0683 | pCi/L | 02/14/23 10:04 | 03/08/23 07:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.7   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:11 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.757  |           | 0.353              | 0.360              | 1.00 | 0.473 | pCi/L | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 91.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Y Carrier  | 89.0   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 2.14   |           | 0.403              | 0.428              | 5.00 | 0.473 | pCi/L |          | 03/08/23 15:29 | 1       |

## Client Sample ID: MCI-MGWC-12

Date Collected: 02/07/23 15:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-7**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 0.263  |           | 0.0904             | 0.0934             | 1.00 | 0.0752 | pCi/L | 02/14/23 10:04 | 03/08/23 07:12 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.4   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:12 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.586  |           | 0.383              | 0.387              | 1.00 | 0.571 | pCi/L | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.4   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Y Carrier  | 86.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWC-12**  
Date Collected: 02/07/23 15:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-7**  
Matrix: Water

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 0.849  |           | 0.394              | 0.398              | 5.00 | 0.571 | pCi/L |          | 03/08/23 15:29 | 1       |

## Client Sample ID: MCI-MGWC-1

Date Collected: 02/08/23 10:00  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-8**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226     | 1.39   |           | 0.201              | 0.237              | 1.00 | 0.0874 | pCi/L | 02/14/23 10:04 | 03/08/23 07:12 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |        |       |                |                |         |
| Ba Carrier     | 85.4   |           | <b>Limits</b>      |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:12 | 1       |
|                |        |           | 30 - 110           |                    |      |        |       |                |                |         |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228     | 0.384  | U         | 0.334              | 0.336              | 1.00 | 0.525 | pCi/L | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 85.4   |           | <b>Limits</b>      |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Y Carrier      | 87.5   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 1.77   |           | 0.390              | 0.411              | 5.00 | 0.525 | pCi/L |          | 03/08/23 15:29 | 1       |

## Client Sample ID: MCI-MGWC-2

Date Collected: 02/08/23 09:55  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-9**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 0.215  |           | 0.0941             | 0.0960             | 1.00 | 0.107 | pCi/L | 02/14/23 10:04 | 03/08/23 07:12 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 82.9   |           | <b>Limits</b>      |                    |      |       |       | 02/14/23 10:04 | 03/08/23 07:12 | 1       |
|                |        |           | 30 - 110           |                    |      |       |       |                |                |         |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWC-2**  
Date Collected: 02/08/23 09:55  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-9**  
Matrix: Water

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.584  |           | 0.369              | 0.373              | 1.00 | 0.541 | pCi/L | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 82.9   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |
| Y Carrier  | 88.6   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:21 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.799  |           | 0.381              | 0.385              | 5.00 | 0.541 | pCi/L | 03/08/23 15:29 |          | 1       |

## Client Sample ID: MCI-MGWC-7

Date Collected: 02/08/23 11:50  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-10**

Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 1.18   |           | 0.195              | 0.222              | 1.00 | 0.0957 | pCi/L | 02/14/23 10:04 | 03/08/23 07:12 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 75.1   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:12 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.695  |           | 0.411              | 0.415              | 1.00 | 0.585 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 75.1   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Y Carrier  | 82.6   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 1.88   |           | 0.455              | 0.471              | 5.00 | 0.585 | pCi/L | 03/08/23 15:29 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-MGWC-8**  
Date Collected: 02/08/23 13:30  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-11**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|--------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                |                |         |
| Radium-226 | 0.565  |           | 0.134              | 0.143              | 1.00 | 0.0951 | pCi/L | 02/14/23 10:04 | 03/08/23 07:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |        |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 84.3   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04 | 03/08/23 07:14 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.544  | U         | 0.371              | 0.374              | 1.00 | 0.556 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 84.3   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Y Carrier  | 86.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte         | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|-----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                 |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium | 1.11   |           | 0.394              | 0.400              | 5.00 | 0.556 | pCi/L |          | 03/08/23 15:29 | 1       |
| 226 + 228       |        |           |                    |                    |      |       |       |          |                |         |

## Client Sample ID: MCI-AP1-FD-01

Date Collected: 02/08/23 00:00

**Lab Sample ID: 680-230304-12**

Date Received: 02/09/23 10:01

Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.218  |           | 0.0958             | 0.0977             | 1.00 | 0.113 | pCi/L | 02/14/23 10:04 | 03/08/23 07:14 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 85.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:04 | 03/08/23 07:14 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.459  | U         | 0.354              | 0.356              | 1.00 | 0.544 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 85.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Y Carrier  | 89.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-AP1-FD-01**  
Date Collected: 02/08/23 00:00  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-12**  
Matrix: Water

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 0.677  |           | 0.367              | 0.369              | 5.00 | 0.544 | pCi/L |          | 03/08/23 15:29 | 1       |

**Client Sample ID: MCI-AP1-FD-02**

Date Collected: 02/08/23 00:00  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-13**  
Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 0.502  |           | 0.133              | 0.140              | 1.00 | 0.122 | pCi/L | 02/14/23 10:04 | 03/08/23 07:14 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 88.9   |           | <b>Limits</b>      |                    |      |       |       | 02/14/23 10:04 | 03/08/23 07:14 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228     | 0.284  | U         | 0.293              | 0.294              | 1.00 | 0.472 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 88.9   |           | <b>Limits</b>      |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| Y Carrier      | 88.6   |           | <b>Limits</b>      |                    |      |       |       | 02/14/23 10:24 | 02/20/23 12:22 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 0.786  |           | 0.322              | 0.326              | 5.00 | 0.472 | pCi/L |          | 03/08/23 15:29 | 1       |

**Client Sample ID: MCI-AP1-FB-01**

Date Collected: 02/07/23 14:55  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-14**  
Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 0.0357 | U         | 0.0603             | 0.0604             | 1.00 | 0.105 | pCi/L | 02/14/23 10:04 | 03/08/23 07:14 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 88.0   |           | <b>Limits</b>      |                    |      |       |       | 02/14/23 10:04 | 03/08/23 07:14 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-AP1-FB-01**

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-14**

Matrix: Water

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |         |
| Radium-228     | 0.636  |           | 0.338              | 0.343              | 1.00     | 0.464 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| <b>Carrier</b> |        |           |                    |                    |          |       |       |                |                |         |
| Ba Carrier     | 88.0   | U         | <b>Limits</b>      |                    | 30 - 110 | 0.464 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
|                |        |           |                    |                    |          |       |       |                |                |         |
| Y Carrier      | 89.7   | U         |                    |                    | 30 - 110 | 0.464 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
|                |        |           |                    |                    |          |       |       |                |                |         |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.672  |           | 0.343              | 0.348              | 5.00 | 0.464 | pCi/L | 03/08/23 15:29 |          | 1       |

**Client Sample ID: MCI-AP1-FB-02**

Date Collected: 02/08/23 10:25

Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-15**

Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result  | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|---------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|---------|
|                |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |         |
| Radium-226     | -0.0110 | U         | 0.0512             | 0.0512             | 1.00     | 0.108 | pCi/L | 02/14/23 10:04 | 03/08/23 07:15 | 1       |
| <b>Carrier</b> |         |           |                    |                    |          |       |       |                |                |         |
| Ba Carrier     | 93.4    | U         | <b>Limits</b>      |                    | 30 - 110 | 0.108 | pCi/L | 02/14/23 10:04 | 03/08/23 07:15 | 1       |
|                |         |           |                    |                    |          |       |       |                |                |         |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |         |
| Radium-228     | 0.223  | U         | 0.312              | 0.313              | 1.00     | 0.525 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
| <b>Carrier</b> |        |           |                    |                    |          |       |       |                |                |         |
| Ba Carrier     | 93.4   | U         | <b>Limits</b>      |                    | 30 - 110 | 0.525 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
|                |        |           |                    |                    |          |       |       |                |                |         |
| Y Carrier      | 87.5   | U         |                    |                    | 30 - 110 | 0.525 | pCi/L | 02/14/23 10:24 | 02/20/23 12:22 | 1       |
|                |        |           |                    |                    |          |       |       |                |                |         |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.212  | U         | 0.316              | 0.317              | 5.00 | 0.525 | pCi/L | 03/08/23 15:29 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-AP1-EB-03**  
Date Collected: 02/07/23 15:40  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-16**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result  | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-226     | -0.0326 | U         | 0.0536             | 0.0537             | 1.00 | 0.123 | pCi/L | 02/14/23 10:04  | 03/08/23 07:15  | 1              |
| <i>Carrier</i> | %Yield  | Qualifier | Limits             |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 82.3    |           | 30 - 110           |                    |      |       |       | 02/14/23 10:04  | 03/08/23 07:15  | 1              |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | 0.620  |           | 0.370              | 0.374              | 1.00 | 0.531 | pCi/L | 02/14/23 10:24  | 02/20/23 12:22  | 1              |
| <i>Carrier</i> | %Yield | Qualifier | Limits             |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 82.3   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24  | 02/20/23 12:22  | 1              |
| Y Carrier      | 89.7   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24  | 02/20/23 12:22  | 1              |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium 226 + 228 | 0.587  |           | 0.374              | 0.378              | 5.00 | 0.531 | pCi/L |          | 03/08/23 15:29 | 1       |

## Client Sample ID: MCI-AP1-EB-04

Date Collected: 02/08/23 11:45

**Lab Sample ID: 680-230304-17**

Date Received: 02/09/23 10:01

Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|--------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                 |                 |                |
| Radium-226     | 0.0182 | U         | 0.0525             | 0.0525             | 1.00 | 0.0990 | pCi/L | 02/14/23 10:04  | 03/08/23 07:15  | 1              |
| <i>Carrier</i> | %Yield | Qualifier | Limits             |                    |      |        |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 85.4   |           | 30 - 110           |                    |      |        |       | 02/14/23 10:04  | 03/08/23 07:15  | 1              |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | 0.0253 | U         | 0.350              | 0.350              | 1.00 | 0.640 | pCi/L | 02/14/23 10:24  | 02/20/23 12:22  | 1              |
| <i>Carrier</i> | %Yield | Qualifier | Limits             |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 85.4   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24  | 02/20/23 12:22  | 1              |
| Y Carrier      | 89.0   |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24  | 02/20/23 12:22  | 1              |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-AP1-EB-04**

**Lab Sample ID: 680-230304-17**

Date Collected: 02/08/23 11:45

Matrix: Water

Date Received: 02/09/23 10:01

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result | Qualifier | Count   | Total   | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
|                           |        |           | Uncert. | (2σ+/-) |      |       |       |          |                |         |
| Combined Radium 226 + 228 | 0.0435 | U         | 0.354   | 0.354   | 5.00 | 0.640 | pCi/L |          | 03/08/23 15:29 | 1       |

# Tracer/Carrier Summary

Client: Southern Company

Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## **Method: 9315 - Radium-226 (GFPC)**

**Matrix: Water**

**Prep Type: Total/NA**

| Lab Sample ID      | Client Sample ID   | Percent Yield (Acceptance Limits) |  |
|--------------------|--------------------|-----------------------------------|--|
|                    |                    | Ba<br>(30-110)                    |  |
| 680-230304-1       | MCI-MGWA-10        | 95.1                              |  |
| 680-230304-1 DU    | MCI-MGWA-10        | 84.0                              |  |
| 680-230304-2       | MCI-MGWA-11        | 93.7                              |  |
| 680-230304-3       | MCI-MGWA-5         | 88.0                              |  |
| 680-230304-4       | MCI-MGWA-6         | 90.0                              |  |
| 680-230304-5       | MCI-MGWA-6A        | 86.3                              |  |
| 680-230304-6       | MCI-MGWC-3         | 91.7                              |  |
| 680-230304-7       | MCI-MGWC-12        | 87.4                              |  |
| 680-230304-8       | MCI-MGWC-1         | 85.4                              |  |
| 680-230304-9       | MCI-MGWC-2         | 82.9                              |  |
| 680-230304-10      | MCI-MGWC-7         | 75.1                              |  |
| 680-230304-11      | MCI-MGWC-8         | 84.3                              |  |
| 680-230304-12      | MCI-AP1-FD-01      | 85.7                              |  |
| 680-230304-13      | MCI-AP1-FD-02      | 88.9                              |  |
| 680-230304-14      | MCI-AP1-FB-01      | 88.0                              |  |
| 680-230304-15      | MCI-AP1-FB-02      | 93.4                              |  |
| 680-230304-16      | MCI-AP1-EB-03      | 82.3                              |  |
| 680-230304-17      | MCI-AP1-EB-04      | 85.4                              |  |
| LCS 160-600299/2-A | Lab Control Sample | 87.7                              |  |
| MB 160-600299/1-A  | Method Blank       | 88.6                              |  |

### Tracer/Carrier Legend

Ba = Ba Carrier

## **Method: 9320 - Radium-228 (GFPC)**

**Matrix: Water**

**Prep Type: Total/NA**

| Lab Sample ID      | Client Sample ID   | Percent Yield (Acceptance Limits) |               |
|--------------------|--------------------|-----------------------------------|---------------|
|                    |                    | Ba<br>(30-110)                    | Y<br>(30-110) |
| 680-230304-1       | MCI-MGWA-10        | 95.1                              | 88.2          |
| 680-230304-1 DU    | MCI-MGWA-10        | 84.0                              | 86.7          |
| 680-230304-2       | MCI-MGWA-11        | 93.7                              | 87.5          |
| 680-230304-3       | MCI-MGWA-5         | 88.0                              | 85.6          |
| 680-230304-4       | MCI-MGWA-6         | 90.0                              | 90.1          |
| 680-230304-5       | MCI-MGWA-6A        | 86.3                              | 87.1          |
| 680-230304-6       | MCI-MGWC-3         | 91.7                              | 89.0          |
| 680-230304-7       | MCI-MGWC-12        | 87.4                              | 86.7          |
| 680-230304-8       | MCI-MGWC-1         | 85.4                              | 87.5          |
| 680-230304-9       | MCI-MGWC-2         | 82.9                              | 88.6          |
| 680-230304-10      | MCI-MGWC-7         | 75.1                              | 82.6          |
| 680-230304-11      | MCI-MGWC-8         | 84.3                              | 86.7          |
| 680-230304-12      | MCI-AP1-FD-01      | 85.7                              | 89.7          |
| 680-230304-13      | MCI-AP1-FD-02      | 88.9                              | 88.6          |
| 680-230304-14      | MCI-AP1-FB-01      | 88.0                              | 89.7          |
| 680-230304-15      | MCI-AP1-FB-02      | 93.4                              | 87.5          |
| 680-230304-16      | MCI-AP1-EB-03      | 82.3                              | 89.7          |
| 680-230304-17      | MCI-AP1-EB-04      | 85.4                              | 89.0          |
| LCS 160-600302/2-A | Lab Control Sample | 87.7                              | 91.6          |
| MB 160-600302/1-A  | Method Blank       | 88.6                              | 86.7          |

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## Tracer/Carrier Summary

Client: Southern Company

Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

1

2

3

4

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11

12

13

# QC Sample Results

Client: Southern Company

Job ID: 680-230304-2

Project/Site: Plant McIntosh Ash Pond 1

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID:** MB 160-600299/1-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 602826

**Prep Batch:** 600299

| Analyte        | Result  | MB<br>MB<br>U | Qualifier | Count              | Total              | RL   | MDC    | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------|---------------|-----------|--------------------|--------------------|------|--------|-------|-----------------|-----------------|----------------|
|                |         |               |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |        |       |                 |                 |                |
| Radium-226     | 0.01650 |               | U         | 0.0433             | 0.0433             | 1.00 | 0.0822 | pCi/L | 02/14/23 10:04  | 03/08/23 07:07  | 1              |
| <b>Carrier</b> |         | <b>MB</b>     | <b>MB</b> |                    |                    |      |        |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     |         | %Yield        | Qualifier | Limits             |                    |      |        |       | 02/14/23 10:04  | 03/08/23 07:07  | 1              |
|                |         | 88.6          |           | 30 - 110           |                    |      |        |       |                 |                 |                |

**Lab Sample ID:** LCS 160-600299/2-A

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 602826

**Prep Batch:** 600299

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qual | Total              |         | RL   | MDC    | Unit  | %Rec | Limits   | %Rec |
|----------------|----------------|---------------|-------------|--------------------|---------|------|--------|-------|------|----------|------|
|                |                |               |             | Uncert.<br>(2σ+/-) | (2σ+/-) |      |        |       |      |          |      |
| Radium-226     |                | 11.3          | 11.65       |                    | 1.19    | 1.00 | 0.0849 | pCi/L | 103  | 75 - 125 |      |
| <b>Carrier</b> |                | <b>LCS</b>    | <b>LCS</b>  |                    |         |      |        |       |      |          |      |
| Ba Carrier     |                | %Yield        | Qualifier   | Limits             |         |      |        |       |      |          |      |
|                |                | 87.7          |             | 30 - 110           |         |      |        |       |      |          |      |

**Lab Sample ID:** 680-230304-1 DU

**Client Sample ID:** MCI-MGWA-10

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 602826

**Prep Batch:** 600299

| Analyte        | Sample<br>Result | Sample<br>Qual | DU<br>Result | DU<br>Qual | Total              |         | RL   | MDC    | Unit  | RER  | Limit |
|----------------|------------------|----------------|--------------|------------|--------------------|---------|------|--------|-------|------|-------|
|                |                  |                |              |            | Uncert.<br>(2σ+/-) | (2σ+/-) |      |        |       |      |       |
| Radium-226     | 0.356            |                | 0.3119       |            | 0.103              |         | 1.00 | 0.0810 | pCi/L | 0.21 | 1     |
| <b>Carrier</b> |                  | <b>DU</b>      | <b>DU</b>    |            |                    |         |      |        |       |      |       |
| Ba Carrier     |                  | %Yield         | Qualifier    | Limits     |                    |         |      |        |       |      |       |
|                |                  | 84.0           |              | 30 - 110   |                    |         |      |        |       |      |       |

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID:** MB 160-600302/1-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 601020

**Prep Batch:** 600302

| Analyte        | MB<br>Result | MB<br>U   | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------------|-----------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |              |           |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | 0.4893       |           | U         | 0.346              | 0.349              | 1.00 | 0.521 | pCi/L | 02/14/23 10:24  | 02/20/23 12:27  | 1              |
| <b>Carrier</b> |              | <b>MB</b> | <b>MB</b> |                    |                    |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Ba Carrier     |              | %Yield    | Qualifier | Limits             |                    |      |       |       | 02/14/23 10:24  | 02/20/23 12:27  | 1              |
| Y Carrier      |              | 88.6      |           | 30 - 110           |                    |      |       |       | 02/14/23 10:24  | 02/20/23 12:27  | 1              |
|                |              | 86.7      |           | 30 - 110           |                    |      |       |       |                 |                 |                |

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# QC Sample Results

Client: Southern Company

Job ID: 680-230304-2

Project/Site: Plant McIntosh Ash Pond 1

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-600302/2-A**

**Matrix: Water**

**Analysis Batch: 601020**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 600302**

| Analyte    | Spike<br>Added | LCS    |      | Total              |  | RL   | MDC   | Unit  | %Rec | %Rec<br>Limits |
|------------|----------------|--------|------|--------------------|--|------|-------|-------|------|----------------|
|            |                | Result | Qual | Uncert.<br>(2σ+/-) |  |      |       |       |      |                |
| Radium-228 | 8.18           | 8.657  |      | 1.20               |  | 1.00 | 0.482 | pCi/L | 106  | 75 - 125       |

**LCS LCS**

| Carrier    | LCS    |           | LCS      |  | Limits |
|------------|--------|-----------|----------|--|--------|
|            | %Yield | Qualifier |          |  |        |
| Ba Carrier | 87.7   |           | 30 - 110 |  |        |
| Y Carrier  | 91.6   |           | 30 - 110 |  |        |

**Lab Sample ID: 680-230304-1 DU**

**Matrix: Water**

**Analysis Batch: 601021**

**Client Sample ID: MCI-MGWA-10**

**Prep Type: Total/NA**

**Prep Batch: 600302**

| Analyte    | Sample |      | Sample |      | Total              |  | RL   | MDC   | Unit  | RER | RER<br>Limit |
|------------|--------|------|--------|------|--------------------|--|------|-------|-------|-----|--------------|
|            | Result | Qual | Result | Qual | Uncert.<br>(2σ+/-) |  |      |       |       |     |              |
| Radium-228 | 0.315  | U    | 0.2559 | U    | 0.317              |  | 1.00 | 0.524 | pCi/L | 0.1 | 1            |

**DU DU**

| Carrier    | DU     |           | DU       |  | Limits |
|------------|--------|-----------|----------|--|--------|
|            | %Yield | Qualifier |          |  |        |
| Ba Carrier | 84.0   |           | 30 - 110 |  |        |
| Y Carrier  | 86.7   |           | 30 - 110 |  |        |

# QC Association Summary

Client: Southern Company

Job ID: 680-230304-2

Project/Site: Plant McIntosh Ash Pond 1

**Rad**

**Prep Batch: 600299**

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 680-230304-1       | MCI-MGWA-10        | Total/NA  | Water  | PrecSep-21 | 1          |
| 680-230304-2       | MCI-MGWA-11        | Total/NA  | Water  | PrecSep-21 | 2          |
| 680-230304-3       | MCI-MGWA-5         | Total/NA  | Water  | PrecSep-21 | 3          |
| 680-230304-4       | MCI-MGWA-6         | Total/NA  | Water  | PrecSep-21 | 4          |
| 680-230304-5       | MCI-MGWA-6A        | Total/NA  | Water  | PrecSep-21 | 5          |
| 680-230304-6       | MCI-MGWC-3         | Total/NA  | Water  | PrecSep-21 | 6          |
| 680-230304-7       | MCI-MGWC-12        | Total/NA  | Water  | PrecSep-21 | 7          |
| 680-230304-8       | MCI-MGWC-1         | Total/NA  | Water  | PrecSep-21 | 8          |
| 680-230304-9       | MCI-MGWC-2         | Total/NA  | Water  | PrecSep-21 | 9          |
| 680-230304-10      | MCI-MGWC-7         | Total/NA  | Water  | PrecSep-21 | 10         |
| 680-230304-11      | MCI-MGWC-8         | Total/NA  | Water  | PrecSep-21 | 11         |
| 680-230304-12      | MCI-AP1-FD-01      | Total/NA  | Water  | PrecSep-21 | 12         |
| 680-230304-13      | MCI-AP1-FD-02      | Total/NA  | Water  | PrecSep-21 | 13         |
| 680-230304-14      | MCI-AP1-FB-01      | Total/NA  | Water  | PrecSep-21 |            |
| 680-230304-15      | MCI-AP1-FB-02      | Total/NA  | Water  | PrecSep-21 |            |
| 680-230304-16      | MCI-AP1-EB-03      | Total/NA  | Water  | PrecSep-21 |            |
| 680-230304-17      | MCI-AP1-EB-04      | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-600299/1-A  | Method Blank       | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-600299/2-A | Lab Control Sample | Total/NA  | Water  | PrecSep-21 |            |
| 680-230304-1 DU    | MCI-MGWA-10        | Total/NA  | Water  | PrecSep-21 |            |

**Prep Batch: 600302**

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 680-230304-1       | MCI-MGWA-10        | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-2       | MCI-MGWA-11        | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-3       | MCI-MGWA-5         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-4       | MCI-MGWA-6         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-5       | MCI-MGWA-6A        | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-6       | MCI-MGWC-3         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-7       | MCI-MGWC-12        | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-8       | MCI-MGWC-1         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-9       | MCI-MGWC-2         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-10      | MCI-MGWC-7         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-11      | MCI-MGWC-8         | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-12      | MCI-AP1-FD-01      | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-13      | MCI-AP1-FD-02      | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-14      | MCI-AP1-FB-01      | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-15      | MCI-AP1-FB-02      | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-16      | MCI-AP1-EB-03      | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-17      | MCI-AP1-EB-04      | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-600302/1-A  | Method Blank       | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-600302/2-A | Lab Control Sample | Total/NA  | Water  | PrecSep_0 |            |
| 680-230304-1 DU    | MCI-MGWA-10        | Total/NA  | Water  | PrecSep_0 |            |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## Client Sample ID: MCI-MGWA-10

Date Collected: 02/07/23 10:15

Date Received: 02/09/23 10:01

Lab Sample ID: 680-230304-1

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 1003.23 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:09       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 1003.23 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:18       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-MGWA-11

Date Collected: 02/07/23 12:10

Date Received: 02/09/23 10:01

Lab Sample ID: 680-230304-2

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 992.57 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:09       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 992.57 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:20       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-MGWA-5

Date Collected: 02/07/23 13:40

Date Received: 02/09/23 10:01

Lab Sample ID: 680-230304-3

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 999.30 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:09       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 999.30 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:21       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-MGWA-6

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 10:01

Lab Sample ID: 680-230304-4

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 1004.00 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 602826       | 03/08/23 07:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## **Client Sample ID: MCI-MGWA-6**

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-4**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep_0               |     |            | 1004.00 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:20       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWA-6A**

Date Collected: 02/07/23 10:40

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-5**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 1009.52 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 1009.52 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:21       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWC-3**

Date Collected: 02/07/23 14:20

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-6**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 995.61 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 995.61 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:21       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWC-12**

Date Collected: 02/07/23 15:05

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-7**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 995.07 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:12       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 995.07 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:21       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## **Client Sample ID: MCI-MGWC-12**

Date Collected: 02/07/23 15:05

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-7**

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |

## **Client Sample ID: MCI-MGWC-1**

Date Collected: 02/08/23 10:00

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-8**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 997.03 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:12       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 997.03 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:21       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWC-2**

Date Collected: 02/08/23 09:55

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-9**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 993.16 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:12       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 993.16 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:21       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWC-7**

Date Collected: 02/08/23 11:50

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-10**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 1003.70 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602826       | 03/08/23 07:12       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 1003.70 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## Client Sample ID: MCI-MGWC-8

Date Collected: 02/08/23 13:30

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-11

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 1001.73 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:14       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 1001.73 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-AP1-FD-01

Date Collected: 02/08/23 00:00

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-12

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 992.38 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:14       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 992.38 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-AP1-FD-02

Date Collected: 02/08/23 00:00

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-13

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 1000.23 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:14       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 1000.23 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-AP1-FB-01

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

## Lab Sample ID: 680-230304-14

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 1000.28 mL     | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:14       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

## **Client Sample ID: MCI-AP1-FB-01**

Date Collected: 02/07/23 14:55

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-14**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep_0               |     |            | 1000.28 mL     | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-AP1-FB-02**

Date Collected: 02/08/23 10:25

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-15**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 994.47 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:15       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 994.47 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-AP1-EB-03**

Date Collected: 02/07/23 15:40

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-16**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 993.91 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:15       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 993.91 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-AP1-EB-04**

Date Collected: 02/08/23 11:45

Date Received: 02/09/23 10:01

## **Lab Sample ID: 680-230304-17**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 990.42 mL      | 1.0 g        | 600299       | 02/14/23 10:04       | DJP     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 602860       | 03/08/23 07:15       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 990.42 mL      | 1.0 g        | 600302       | 02/14/23 10:24       | DJP     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 601021       | 02/20/23 12:22       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

**Client Sample ID: MCI-AP1-EB-04**

**Lab Sample ID: 680-230304-17**

**Matrix: Water**

Date Collected: 02/08/23 11:45

Date Received: 02/09/23 10:01

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 602873       | 03/08/23 15:29       | SCB     | EET SL |

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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## Accreditation/Certification Summary

Client: Southern Company

Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

### Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Florida   | NEILAP  | E87689                | 06-30-23        |

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## Method Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-2

| Method      | Method Description                                     | Protocol | Laboratory |
|-------------|--|----------|------------|
| 9315        | Radium-226 (GFPC)                                      | SW846    | EET SL     |
| 9320        | Radium-228 (GFPC)                                      | SW846    | EET SL     |
| Ra226_Ra228 | Combined Radium-226 and Radium-228                     | TAL-STL  | EET SL     |
| PrecSep_0   | Preparation, Precipitate Separation                    | None     | EET SL     |
| PrecSep-21  | Preparation, Precipitate Separation (21-Day In-Growth) | None     | EET SL     |

### Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

## Chain of Custody Record

|   |  |                                   |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
|---|--|-----------------------------------|---------------------------------|--|-------------------------|---|------------------------------------|--|-----------------------------------|----------------------------|------------------------|--|
| <b>Client Information</b>   |  | Sampler: <i>A Schmitker</i>       | ACC                             | Lab PM: Fuller David   | Carrier Tracking No(s). | COC No:   |                                    |  |                                   |                            |                        |  |
|   |  | Client Contact:<br>SCS Contacts   | Phone: <i>770-574-5998</i>      | E-Mail: <i>david.fuller@et.eurofinsus.com</i>  |                         | Page: <i>1 of 2</i>   |                                    |  |                                   |                            |                        |  |
| Company<br>GA Power   |  | <b>Analysis Requested</b>         |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| Address:<br>241 Ralph McGill Blvd SE  |  | Due Date Requested.               |                                 | <b>Preservation Codes.</b><br>A - HCL M - Hexane<br>B - NaOH N - None<br>C - Zn Acetate O - AsNaO2<br>D - Nitric Acid P - Na2O4S<br>E - NaHSO4 Q - Na2SO3<br>F - MeOH R - Na2S2O3<br>G - Amchlor T - TSP Dodecahydrate<br>H - Ascorbic Acid U - Acetone<br>I - Ice V - MCAA<br>J - DI Water W - pH 4-5<br>K - EDTA L - EDA<br>Z - other (specify)<br>Other |                         |   |                                    |  |                                   |                            |                        |  |
| City:<br>Atlanta  |  | TAT Requested (days)              |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| State Zip:<br>GA, 30308   |  | <i>Standard</i>                   |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| Phone:<br>404-506-7116(Tel)   |  | Lab Project #:<br><i>68027747</i> |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| Email:<br>SCS Contacts / ACC Contacts   |  | PO #:                             |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| Project Name:<br>Plant McIntosh - Ash Pond 1  |  | Project #:                        |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| Site:<br>Georgia  |  | SSOW#:                            |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| Sample Identification   |  | Sample Date<br>(mm/dd/yy)         | Sample Time<br>(hhmm)           |  |                         |   | Sample Type<br>(C=Comp,<br>G=grab) | Matrix<br>(WG=ground<br>water WS=surface<br>water WC=quality<br>control) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | App III Metals (B, Ca) | Cl, F, SO <sub>4</sub> , TDS<br>(EPA 300.0 & SM 2540C) |
|   |  |                                   |                                 |  |                         |   |                                    |  |                                   |                            |                        |  |
| MCI-MGWA-10   |  | 02/07/23                          | 1015                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 5.46   |
| MCI-MGWA-11   |  | 02/07/23                          | 1210                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.72   |
| MCI-MGWA-5  |  | 02/07/23                          | 1340                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.85   |
| MCI-MGWA-6  |  | 02/07/23                          | 1205                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.13   |
| MCI-MGWA-6A   |  | 02/07/23                          | 1040                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.24   |
| MCI-MGWNC-3   |  | 02/07/23                          | 1420                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.01   |
| MCI-MGWNC-12  |  | 02/07/23                          | 1505                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 6.95   |
| MCI-MGWNC-1   |  | 02/08/23                          | 1000                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.28   |
| MCI-MGWNC-2   |  | 02/08/23                          | 0955                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.44   |
| MCI-MGWNC-7   |  | 02/08/23                          | 1150                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 7.43   |
| MCI-MGWNC-8   |  | 02/08/23                          | 1330                            | G  | WG                      | N N ✓ ✓   | ✓                                  | ✓  | ✓                                 | ✓                          | 5                      | pH= 6.76   |
| Possible Hazard Identification  |  |                                   |                                 |  |                         | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)   |                                    |  |                                   |                            |                        |  |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |                                   |                                 |  |                         | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                                    |  |                                   |                            |                        |  |
| Deliverable Requested I II III IV Other (specify)   |  |                                   |                                 |  |                         | Special Instructions/QC Requirements.   |                                    |  |                                   |                            |                        |  |
| Empty Kit Relinquished by:  |  |                                   | Date:                           |  | Time                    |   | Method of Shipment:                |  |                                   |                            |                        |  |
| Relinquished by: <i>J. Johnson</i>  |  |                                   | Date/Time: <i>2-9-23 / 0845</i> |  | Company: ACC            |   | Received by: <i>Tony Johnson</i>   |  | Date/Time: <i>2-9-23 / 0845</i>   |                            | Company: ACC           |  |
| Relinquished by: <i>J. Johnson</i>  |  |                                   | Date/Time: <i>2-9-23 / 1000</i> |  | Company: ACC            |   | Received by: <i>Tony Johnson</i>   |  | Date/Time: <i>2-9-23 / 1001</i>   |                            | Company: ACC           |  |
| Relinquished by: <i>J. Johnson</i>  |  |                                   | Date/Time:                      |  | Company:                |   | Received by:                       |  | Date/Time:                        |                            | Company:               |  |
| Custody Seals Intact:<br>△ Yes △ No   |  | Custody Seal No                   |                                 |  |                         | Cooler Temperature(s) °C and Other Remarks: <i>37/37 2.6/2.0 21/2.1</i>   |                                    |  |                                   |                            |                        |  |

## **Chain of Custody Record**

**Eurofins Savannah**  
5102 LaRoche Avenue  
Savannah, GA 31404  
Phone: 912-354-7858 Fax: 912-352-0165

## Chain of Custody Record



eurofins | Environment Testing

|  |                                     |   |  |  |                   |
|--|-------------------------------------|---|--|--|-------------------|
| <b>Client Information (Sub Contract Lab)</b>   |                                     | Sampler   | Lab PM   | Carrier Tracking No(s)                             | COC No            |
| Client Contact   | Shipping/Receiving                  | Phone   | Fuller, David  | State of Origin                                    | 680-7268855, 1    |
| Company  | TestAmerica Laboratories, Inc.      | E-Mail  | David.Fuller@et.eurofinsus.com                             |  | Page 1 of 2       |
| Address:   | 13715 Rider Trail North,            | Accreditations Required (See note)  | Dept. of Defense ELAP - ANAB, ISO/IEC 17025 - ANAB, NEL... | Job #  | 680-230304-2      |
|  |                                     | Preservation Codes:   |  |  |                   |
|  |                                     | A - HCl<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - Di Water<br>K - EDTA<br>L - EDA<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Decadecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Y - Trizma<br>Z - other (specify) |  |  |                   |
|  |                                     | Other:  |  |  |                   |
| <b>Analysis Requested</b>  |                                     |   |  |  |                   |
| Due Date Requested:  |                                     | 3/14/2023   |  |  |                   |
| TAT Requested (days):  |                                     |   |  |  |                   |
| City   | Earth City                          |   |  |  |                   |
| State/Zip  | MO, 63045                           |   |  |  |                   |
| Phone  | 314-298-8566(Tel) 314-298-8757(Fax) |   |  |  |                   |
| Email:   |                                     |   |  |  |                   |
| Project Name   | Plant McIntosh Ash Pond 1           |   |  |  |                   |
| Site:  | SSOWA                               |   |  |  |                   |
| <b>Sample Identification - Client ID (Lab ID)</b>  |                                     |   |  |  |                   |
| MCL-MGWA-10 (680-230304-1)   | Sample Date                         | Sample Time   | Sample Type (C=comp, G=grab)                               | Matrix (Water, Sewage, Overwash, Br/Tissue, A/Air) | Preservation Code |
| 2/7/23   | 10:15                               | Eastern   | Water  | X X X  |                   |
| MCL-MGWA-11 (680-230304-2)   | 2/7/23                              | 12:10   | Water  | X X X  |                   |
| MCL-MGWA-5 (680-230304-3)  | 2/7/23                              | 13:40   | Water  | X X X  |                   |
| MCL-MGWA-6 (680-230304-4)  | 2/7/23                              | 12:05   | Water  | X X X  |                   |
| MCL-MGWA-6A (680-230304-5)   | 2/7/23                              | 10:40   | Water  | X X X  |                   |
| MCL-MGWC-3 (680-230304-6)  | 2/7/23                              | 14:20   | Water  | X X X  |                   |
| MCL-MGWC-12 (680-230304-7)   | 2/7/23                              | 15:05   | Water  | X X X  |                   |
| MCL-MGWC-1 (680-230304-8)  | 2/8/23                              | 10:00   | Water  | X X X  |                   |
| MCL-MGWC-2 (680-230304-9)  | 2/8/23                              | 09:55   | Water  | X X X  |                   |
| <b>Special Instructions/Note:</b>  |                                     |   |  |  |                   |
| Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/><br>Performed MS/MS/SD (Yes or No) <input checked="" type="checkbox"/><br>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> |                                     |   |  |  |                   |
| <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>   |                                     |   |  |  |                   |
| <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months   |                                     |   |  |  |                   |
| <b>Special Instructions/QC Requirements:</b>   |                                     |   |  |  |                   |
| Unconfirmed  |                                     | Date:   | Time:  | Method of Shipment:                                |                   |
| Deliverable Requested I, II, III, IV, Other (specify)  |                                     |   |  |  |                   |
| Primary Deliverable Rank: 2  |                                     |   |  |  |                   |
| Empty Kit Relinquished by:   |                                     | Date:   | Time:  |  |                   |
| Relinquished by  |                                     | Company   | Received By  | Date/Time  | Company           |
| Relinquished by  | <input checked="" type="checkbox"/> | Company   | Received By  | Date/Time  | Company           |
| Relinquished by  |                                     | Company   | Received By  | Date/Time  | Company           |
| Custody Seals intact:  | Custody Seal No.:<br>△ Yes △ No     | Colder Temperature(s) °C and Other Remarks:   |  |  |                   |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analytic & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

### Possible Hazard Identification

Unconfirmed

Deliverable Requested I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client     Disposal By Lab     Archive For Months

Special Instructions/QC Requirements:

Method of Shipment:

Date/Time

Received By

Company

Date/Time

Received By

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Date/Time

Received By

Company

Ver: 06/08/2021

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## eurofins Savannah

5102 LaRoch Avenue  
Savannah, GA 31404  
Phone: 912-354-7858 Fax: 912-352-0165

## Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab)   |                    | Sampler   | Lab P.M.<br>Fuller, David                | Carrier Tracking No(s)  | COC No             |
|---|--------------------|---|--|---|--------------------|
| Client Contact  | Shipping/Receiving | Phone   | E-Mail<br>David.Fuller@et.eurofinsus.com | State of Origin:<br>Georgia   | 680-726855.2       |
| Accreditations Required (See note):<br>Dept. of Defense ELAP - ANAB; ISO/IEC 17025 - ANAB; NEL ...  |                    |   |  |   |                    |
| Job # 680-230304-2  |                    |   |  |   |                    |
| Preservation Codes:   |                    |   |  |   |                    |
| M - Hexane<br>N - None<br>B - HCl<br>O - AsNaO2<br>C - Zn Acetate<br>P - Na2O4S<br>D - Nitric Acid<br>Q - Na2SO3<br>E - NaHSO4<br>R - Na2SO3<br>F - MeOH<br>S - H2SO4<br>G - Amchlor<br>H - Ascorbic Acid<br>I - TSP Dodecylamine<br>J - Di Water<br>K - EDTA<br>L - EDA<br>Z - other (specify)<br>Other:   |                    |   |  |   |                    |
| TDS# Number of Contaminants   |                    |   |  |   |                    |
| Analysis Requested  |                    |   |  |   |                    |
| 9315-Ra226/PreCsep_0_Radium-226<br>9320-Ra228/PreCsep_0_Radium-228<br>Ra226Ra228-GFPC/Combined Radium-226 and Radium-228<br>Field Filtered Sample (yes or No)   |                    |   |  |   |                    |
| Special Instructions/Note:  |                    |   |  |   |                    |
| X   |                    |   |  |   |                    |
| Sample Identification - Client ID (Lab ID)  | Sample Date        | Sample Time   | Sample Type<br>(C=comp.,<br>G=grab)      | Matrix<br>(Water,<br>Soil,<br>Ornamental,<br>Birch tree, Ash, etc.) | Preservation Code: |
| MCI-MGWC-7 (680-230304-10)  | 2/8/23             | 11:50   | Water                                    | X X X   |                    |
| MCI-MGWC-8 (680-230304-11)  | 2/8/23             | 13:30   | Water                                    | X X X   |                    |
| MCI-AP1-FD-01 (680-230304-12)   | 2/8/23             | Eastern   | Water                                    | X X X   |                    |
| MCI-AP1-FD-02 (680-230304-13)   | 2/8/23             | Eastern   | Water                                    | X X X   |                    |
| MCI-AP1-FB-01 (680-230304-14)   | 2/7/23             | 14:55   | Water                                    | X X X   |                    |
| MCI-AP1-FB-02 (680-230304-15)   | 2/8/23             | 10:25   | Water                                    | X X X   |                    |
| MCI-AP1-EB-03 (680-230304-16)   | 2/7/23             | 15:40   | Water                                    | X X X   |                    |
| MCI-AP1-EB-04 (680-230304-17)   | 2/8/23             | 11:45   | Water                                    | X X X   |                    |
|   |                    |   |  |   | 34 ✓               |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testmatrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC. |                    |   |  |   |                    |
| Possible Hazard Identification  |                    | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |  |   |                    |
| Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)  |                    | Primary Deliverable Rank 2  |  | Special Instructions/QC Requirements                                |                    |
| Empty Kit Relinquished by:  |                    | Date:   | Date:                                    | Method of Shipment  |                    |
| Relinquished by   |                    | Date/Time:  | Company                                  | Received By   | Company            |
| Relinquished by   |                    | Date/Time:  | Company                                  | Received By   | Company            |
| Relinquished by   |                    | Date/Time:  | Company                                  | Received By   | Company            |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |                    | Custody Seal No.: <i>Blanca Shanks - Savannah</i>                                   |  |   |                    |
| Cooler Temperature(s) °C and Other Remarks  |                    |   |  |   |                    |

Ver: 06/08/2021

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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230304-2

**Login Number: 230304**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Johnson, Corey M**

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

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230304-2

**Login Number:** 230304

**List Source:** Eurofins St. Louis

**List Number:** 2

**List Creation:** 02/13/23 11:08 AM

**Creator:** Sharkey-Gonzalez, Briana L

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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Generated 2/21/2023 8:53:23 AM

## JOB DESCRIPTION

Plant McIntosh Ash Pond 1

## JOB NUMBER

680-230304-3

# Eurofins Savannah

## Job Notes

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

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

## Authorization



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2/21/2023 8:53:23 AM

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

## Definitions/Glossary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

### Glossary

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

## Sample Summary

Client: Southern Company

Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |    |
|---------------|------------------|--------|----------------|----------------|----|
| 680-230304-1  | MCI-MGWA-10      | Water  | 02/07/23 10:15 | 02/09/23 10:01 | 1  |
| 680-230304-2  | MCI-MGWA-11      | Water  | 02/07/23 12:10 | 02/09/23 10:01 | 2  |
| 680-230304-3  | MCI-MGWA-5       | Water  | 02/07/23 13:40 | 02/09/23 10:01 | 3  |
| 680-230304-4  | MCI-MGWA-6       | Water  | 02/07/23 12:05 | 02/09/23 10:01 | 4  |
| 680-230304-5  | MCI-MGWA-6A      | Water  | 02/07/23 10:40 | 02/09/23 10:01 | 5  |
| 680-230304-6  | MCI-MGWC-3       | Water  | 02/07/23 14:20 | 02/09/23 10:01 | 6  |
| 680-230304-7  | MCI-MGWC-12      | Water  | 02/07/23 15:05 | 02/09/23 10:01 | 7  |
| 680-230304-8  | MCI-MGWC-1       | Water  | 02/08/23 10:00 | 02/09/23 10:01 | 8  |
| 680-230304-9  | MCI-MGWC-2       | Water  | 02/08/23 09:55 | 02/09/23 10:01 | 9  |
| 680-230304-10 | MCI-MGWC-7       | Water  | 02/08/23 11:50 | 02/09/23 10:01 | 10 |
| 680-230304-11 | MCI-MGWC-8       | Water  | 02/08/23 13:30 | 02/09/23 10:01 | 11 |

## Case Narrative

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

### Job ID: 680-230304-3

Laboratory: Eurofins Savannah

#### Narrative

Job Narrative  
680-230304-3

#### Receipt

The samples were received on 2/9/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1°C, 2.6°C, 3.1°C and 3.7°C

#### Metals

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

#### General Chemistry

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

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

**Client Sample ID: MCI-MGWA-10**  
Date Collected: 02/07/23 10:15  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-1**  
Matrix: Water

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 1.1    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 14:59 | 1       |
| Magnesium | 1.1    |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 14:59 | 1       |
| Sodium    | 6.3    |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:59 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 16     |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:52 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 16     |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:52 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:52 | 1       |

**Client Sample ID: MCI-MGWA-11**

**Lab Sample ID: 680-230304-2**

Date Collected: 02/07/23 12:10

Matrix: Water

Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 1.9    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Magnesium | 10     |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |
| Sodium    | 9.5    |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:03 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 140    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:02 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 140    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:02 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:02 | 1       |

**Client Sample ID: MCI-MGWA-5**

**Lab Sample ID: 680-230304-3**

Date Collected: 02/07/23 13:40

Matrix: Water

Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 1.1    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Magnesium | 11     |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |
| Sodium    | 6.8    |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:07 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 110    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:31 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 110    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:31 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:31 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

**Client Sample ID: MCI-MGWA-6**  
Date Collected: 02/07/23 12:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-4**  
Matrix: Water

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 0.68   |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Magnesium | 2.6    |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |
| Sodium    | 4.5    |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:11 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 280    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:44 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 280    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:44 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:44 | 1       |

**Client Sample ID: MCI-MGWA-6A**

**Lab Sample ID: 680-230304-5**

Date Collected: 02/07/23 10:40

Matrix: Water

Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 0.61   |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:23 | 1       |
| Magnesium | 2.6    |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:23 | 1       |
| Sodium    | 4.3    |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:23 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 260    |           | 5.0 | 5.0 | mg/L |   |          | 02/15/23 03:01 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 260    |           | 5.0 | 5.0 | mg/L |   |          | 02/15/23 03:01 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/15/23 03:01 | 1       |

**Client Sample ID: MCI-MGWC-3**

**Lab Sample ID: 680-230304-6**

Date Collected: 02/07/23 14:20

Matrix: Water

Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 1.6    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Magnesium | 5.5    |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |
| Sodium    | 16     |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:27 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 210    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:21 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 210    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:21 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:21 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

**Client Sample ID: MCI-MGWC-12**  
Date Collected: 02/07/23 15:05  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-7**  
Matrix: Water

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 1.9    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Magnesium | 12     |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |
| Sodium    | 13     |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:31 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 140    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:34 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 140    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:34 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 20:34 | 1       |

**Client Sample ID: MCI-MGWC-1**

**Lab Sample ID: 680-230304-8**  
Matrix: Water

Date Collected: 02/08/23 10:00  
Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 2.0    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Magnesium | 5.8    |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |
| Sodium    | 20     |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:35 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 190    |           | 5.0 | 5.0 | mg/L |   |          | 02/15/23 00:07 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 190    |           | 5.0 | 5.0 | mg/L |   |          | 02/15/23 00:07 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/15/23 00:07 | 1       |

**Client Sample ID: MCI-MGWC-2**

**Lab Sample ID: 680-230304-9**  
Matrix: Water

Date Collected: 02/08/23 09:55  
Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 2.0    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:39 | 1       |
| Magnesium | 17     |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:39 | 1       |
| Sodium    | 31     |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:39 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 220    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:11 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 220    |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:11 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 21:11 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

**Client Sample ID: MCI-MGWC-7**  
Date Collected: 02/08/23 11:50  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-10**  
Matrix: Water

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 3.3    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Magnesium | 6.8    |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |
| Sodium    | 43     |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:43 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 49     |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 10:38 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 49     |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 10:38 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 10:38 | 1       |

**Client Sample ID: MCI-MGWC-8**

**Lab Sample ID: 680-230304-11**

Date Collected: 02/08/23 13:30

Matrix: Water

Date Received: 02/09/23 10:01

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

| Analyte   | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Potassium | 2.8    |           | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Magnesium | 19     |           | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |
| Sodium    | 26     |           | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 15:47 | 1       |

## General Chemistry

| Analyte   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)       | 95     |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 23:47 | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011) | 95     |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 23:47 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub> (SM 2320B-2011)   | <5.0   |           | 5.0 | 5.0 | mg/L |   |          | 02/14/23 23:47 | 1       |

# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

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

**Lab Sample ID:** MB 680-762796/1-A

**Matrix:** Water

**Analysis Batch:** 762951

**Client Sample ID:** Method Blank

**Prep Type:** Total Recoverable

**Prep Batch:** 762796

| Analyte   | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------------|-----------------|------|-------|------|---|----------------|----------------|---------|
| Potassium | <0.044       |                 | 0.50 | 0.044 | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Magnesium | <0.023       |                 | 0.50 | 0.023 | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |
| Sodium    | <0.20        |                 | 0.50 | 0.20  | mg/L |   | 02/10/23 05:10 | 02/10/23 14:34 | 1       |

**Lab Sample ID:** LCS 680-762796/2-A

**Matrix:** Water

**Analysis Batch:** 762951

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total Recoverable

**Prep Batch:** 762796

| Analyte   |  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | Limits   |
|-----------|--|----------------|---------------|------------------|------|---|------|----------|
| Potassium |  | 6.97           | 7.04          |                  | mg/L |   | 101  | 80 - 120 |
| Magnesium |  | 5.01           | 5.20          |                  | mg/L |   | 104  | 80 - 120 |
| Sodium    |  | 5.05           | 5.22          |                  | mg/L |   | 103  | 80 - 120 |

**Lab Sample ID:** 752-2580-A-5-E MS

**Matrix:** Water

**Analysis Batch:** 762951

**Client Sample ID:** Matrix Spike

**Prep Type:** Total Recoverable

**Prep Batch:** 762796

| Analyte   | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | Limits   |
|-----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------|
| Potassium | 0.83             |                     | 6.97           | 7.93         |                 | mg/L |   | 102  | 75 - 125 |
| Magnesium | 0.20             | J                   | 5.01           | 5.50         |                 | mg/L |   | 106  | 75 - 125 |
| Sodium    | 1.2              |                     | 5.05           | 6.51         |                 | mg/L |   | 105  | 75 - 125 |

**Lab Sample ID:** 752-2580-A-5-F MSD

**Matrix:** Water

**Analysis Batch:** 762951

**Client Sample ID:** Matrix Spike Duplicate

**Prep Type:** Total Recoverable

**Prep Batch:** 762796

| Analyte   | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
|-----------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------|-----|-------|
| Potassium | 0.83             |                     | 6.97           | 7.67          |                  | mg/L |   | 98   | 75 - 125 | 3   | 20    |
| Magnesium | 0.20             | J                   | 5.01           | 5.33          |                  | mg/L |   | 102  | 75 - 125 | 3   | 20    |
| Sodium    | 1.2              |                     | 5.05           | 6.30          |                  | mg/L |   | 101  | 75 - 125 | 3   | 20    |

## Method: 2320B-2011 - Alkalinity, Total

**Lab Sample ID:** MB 680-763528/4

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Matrix:** Water

**Analysis Batch:** 763528

| Analyte                         | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3       | <5.0         |                 | 5.0 | 5.0 | mg/L |   |          | 02/14/23 17:57 | 1       |
| Bicarbonate Alkalinity as CaCO3 | <5.0         |                 | 5.0 | 5.0 | mg/L |   |          | 02/14/23 17:57 | 1       |
| Carbonate Alkalinity as CaCO3   | <5.0         |                 | 5.0 | 5.0 | mg/L |   |          | 02/14/23 17:57 | 1       |

**Lab Sample ID:** LCS 680-763528/6

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Matrix:** Water

**Analysis Batch:** 763528

| Analyte                   |  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | Limits   |
|---------------------------|--|----------------|---------------|------------------|------|---|------|----------|
| Total Alkalinity as CaCO3 |  | 250            | 249           |                  | mg/L |   | 100  | 90 - 112 |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

## Method: 2320B-2011 - Alkalinity, Total (Continued)

**Lab Sample ID: LCSD 680-763528/31**

**Matrix: Water**

**Analysis Batch: 763528**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

| Analyte                               | Spike Added | LCSD Result | LCSD Qualifier | Unit | D   | %Rec     | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|-----|----------|-----|-----------|
| Total Alkalinity as CaCO <sub>3</sub> | 250         | 254         |                | mg/L | 101 | 90 - 112 | 2   | 30        |

**Lab Sample ID: 680-230302-B-16 DU**

**Matrix: Water**

**Analysis Batch: 763528**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

| Analyte                                     | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO <sub>3</sub>       | 60            |                  | 57.1      |              | mg/L |   | 6   | 30        |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 60            |                  | 57.1      |              | mg/L |   | 6   | 30        |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | <5.0          |                  | <5.0      |              | mg/L |   | NC  | 30        |

**Lab Sample ID: MB 680-763529/4**

**Matrix: Water**

**Analysis Batch: 763529**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                                     | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|---|-----------|--------------|-----|-----|------|---|----------------|----------|---------|
| Total Alkalinity as CaCO <sub>3</sub>       | <5.0      |              | 5.0 | 5.0 | mg/L |   | 02/14/23 23:21 |          | 1       |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | <5.0      |              | 5.0 | 5.0 | mg/L |   | 02/14/23 23:21 |          | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | <5.0      |              | 5.0 | 5.0 | mg/L |   | 02/14/23 23:21 |          | 1       |

**Lab Sample ID: LCS 680-763529/6**

**Matrix: Water**

**Analysis Batch: 763529**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D  | %Rec     | RPD |
|---------------------------------------|-------------|------------|---------------|------|----|----------|-----|
| Total Alkalinity as CaCO <sub>3</sub> | 250         | 248        |               | mg/L | 99 | 90 - 112 |     |

**Lab Sample ID: LCSD 680-763529/31**

**Matrix: Water**

**Analysis Batch: 763529**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

| Analyte                               | Spike Added | LCSD Result | LCSD Qualifier | Unit | D   | %Rec     | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|-----|----------|-----|-----------|
| Total Alkalinity as CaCO <sub>3</sub> | 250         | 254         |                | mg/L | 101 | 90 - 112 | 2   | 30        |

**Lab Sample ID: 680-230304-11 DU**

**Matrix: Water**

**Analysis Batch: 763529**

**Client Sample ID: MCI-MGWC-8**

**Prep Type: Total/NA**

| Analyte                                     | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO <sub>3</sub>       | 95            |                  | 94.9      |              | mg/L |   | 0   | 30        |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 95            |                  | 94.9      |              | mg/L |   | 0   | 30        |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | <5.0          |                  | <5.0      |              | mg/L |   | NC  | 30        |

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

## Metals

### Prep Batch: 762796

| Lab Sample ID      | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|------------------------|-------------------|--------|--------|------------|
| 680-230304-1       | MCI-MGWA-10            | Total Recoverable | Water  | 3005A  | 5          |
| 680-230304-2       | MCI-MGWA-11            | Total Recoverable | Water  | 3005A  | 6          |
| 680-230304-3       | MCI-MGWA-5             | Total Recoverable | Water  | 3005A  | 7          |
| 680-230304-4       | MCI-MGWA-6             | Total Recoverable | Water  | 3005A  | 8          |
| 680-230304-5       | MCI-MGWA-6A            | Total Recoverable | Water  | 3005A  | 9          |
| 680-230304-6       | MCI-MGWC-3             | Total Recoverable | Water  | 3005A  | 10         |
| 680-230304-7       | MCI-MGWC-12            | Total Recoverable | Water  | 3005A  | 11         |
| 680-230304-8       | MCI-MGWC-1             | Total Recoverable | Water  | 3005A  | 12         |
| 680-230304-9       | MCI-MGWC-2             | Total Recoverable | Water  | 3005A  |            |
| 680-230304-10      | MCI-MGWC-7             | Total Recoverable | Water  | 3005A  |            |
| 680-230304-11      | MCI-MGWC-8             | Total Recoverable | Water  | 3005A  |            |
| MB 680-762796/1-A  | Method Blank           | Total Recoverable | Water  | 3005A  |            |
| LCS 680-762796/2-A | Lab Control Sample     | Total Recoverable | Water  | 3005A  |            |
| 752-2580-A-5-E MS  | Matrix Spike           | Total Recoverable | Water  | 3005A  |            |
| 752-2580-A-5-F MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 762951

| Lab Sample ID      | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|------------------------|-------------------|--------|--------|------------|
| 680-230304-1       | MCI-MGWA-10            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-2       | MCI-MGWA-11            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-3       | MCI-MGWA-5             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-4       | MCI-MGWA-6             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-5       | MCI-MGWA-6A            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-6       | MCI-MGWC-3             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-7       | MCI-MGWC-12            | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-8       | MCI-MGWC-1             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-9       | MCI-MGWC-2             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-10      | MCI-MGWC-7             | Total Recoverable | Water  | 6020B  | 762796     |
| 680-230304-11      | MCI-MGWC-8             | Total Recoverable | Water  | 6020B  | 762796     |
| MB 680-762796/1-A  | Method Blank           | Total Recoverable | Water  | 6020B  | 762796     |
| LCS 680-762796/2-A | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 762796     |
| 752-2580-A-5-E MS  | Matrix Spike           | Total Recoverable | Water  | 6020B  | 762796     |
| 752-2580-A-5-F MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 6020B  | 762796     |

## General Chemistry

### Analysis Batch: 763528

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-230304-1       | MCI-MGWA-10            | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-2       | MCI-MGWA-11            | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-3       | MCI-MGWA-5             | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-4       | MCI-MGWA-6             | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-6       | MCI-MGWC-3             | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-7       | MCI-MGWC-12            | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-9       | MCI-MGWC-2             | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-10      | MCI-MGWC-7             | Total/NA  | Water  | 2320B-2011 |            |
| MB 680-763528/4    | Method Blank           | Total/NA  | Water  | 2320B-2011 |            |
| LCS 680-763528/6   | Lab Control Sample     | Total/NA  | Water  | 2320B-2011 |            |
| LCSD 680-763528/31 | Lab Control Sample Dup | Total/NA  | Water  | 2320B-2011 |            |
| 680-230302-B-16 DU | Duplicate              | Total/NA  | Water  | 2320B-2011 |            |

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

## General Chemistry

Analysis Batch: 763529

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 680-230304-5       | MCI-MGWA-6A            | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-8       | MCI-MGWC-1             | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-11      | MCI-MGWC-8             | Total/NA  | Water  | 2320B-2011 |            |
| MB 680-763529/4    | Method Blank           | Total/NA  | Water  | 2320B-2011 |            |
| LCS 680-763529/6   | Lab Control Sample     | Total/NA  | Water  | 2320B-2011 |            |
| LCSD 680-763529/31 | Lab Control Sample Dup | Total/NA  | Water  | 2320B-2011 |            |
| 680-230304-11 DU   | MCI-MGWC-8             | Total/NA  | Water  | 2320B-2011 |            |

## Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

### **Client Sample ID: MCI-MGWA-10**

Date Collected: 02/07/23 10:15

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-1**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 14:59       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 20:52       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWA-11**

Date Collected: 02/07/23 12:10

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-2**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:03       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 21:02       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWA-5**

Date Collected: 02/07/23 13:40

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-3**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:07       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 21:31       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWA-6**

Date Collected: 02/07/23 12:05

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-4**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:11       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 20:44       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

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## Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

### **Client Sample ID: MCI-MGWA-6A**

Date Collected: 02/07/23 10:40

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-5**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:23       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763529       | 02/15/23 03:01       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWC-3**

Date Collected: 02/07/23 14:20

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-6**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:27       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 21:21       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWC-12**

Date Collected: 02/07/23 15:05

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-7**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:31       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 20:34       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

### **Client Sample ID: MCI-MGWC-1**

Date Collected: 02/08/23 10:00

Date Received: 02/09/23 10:01

### **Lab Sample ID: 680-230304-8**

Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:35       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763529       | 02/15/23 00:07       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

**Client Sample ID: MCI-MGWC-2**  
Date Collected: 02/08/23 09:55  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-9**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:39       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 21:11       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-7**  
Date Collected: 02/08/23 11:50  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-10**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:43       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763528       | 02/14/23 10:38       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-8**  
Date Collected: 02/08/23 13:30  
Date Received: 02/09/23 10:01

**Lab Sample ID: 680-230304-11**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method             | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 3005A                    |     |            | 25 mL          | 125 mL       | 762796       | 02/10/23 05:10       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                    |     | 1          |                |              | 762951       | 02/10/23 15:47       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC    |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2320B-2011               |     | 1          |                |              | 763529       | 02/14/23 23:47       | PG      | EET SAV |
|                   |            | Instrument ID: MANTECH 2 |     |            |                |              |              |                      |         |         |

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

## Accreditation/Certification Summary

Client: Southern Company

Job ID: 680-230304-3

Project/Site: Plant McIntosh Ash Pond 1

### Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

| Authority              | Program               | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
| Alabama                | State                 | 41450                 | 06-30-23        |
| ANAB                   | Dept. of Defense ELAP | L2463                 | 09-22-24        |
| Arkansas DEQ           | State                 | 19-015-0              | 02-01-23 *      |
| California             | State                 | 2939                  | 06-30-22 *      |
| Connecticut            | State                 | PH-0161               | 03-31-23        |
| Florida                | NELAP                 | E87052                | 06-30-23        |
| Georgia                | State                 | E87052                | 06-30-23        |
| Georgia (DW)           | State                 | 803                   | 06-30-23        |
| Guam                   | State                 | 19-007R               | 04-17-23        |
| Hawaii                 | State                 | <cert No.>            | 06-30-23        |
| Illinois               | NELAP                 | 200022                | 11-30-23        |
| Indiana                | State                 | C-GA-02               | 06-30-23        |
| Iowa                   | State                 | 353                   | 07-01-23        |
| Kentucky (UST)         | State                 | NA                    | 06-30-23        |
| Louisiana (All)        | NELAP                 | 30690                 | 06-30-23        |
| Louisiana (DW)         | State                 | LA009                 | 12-31-23        |
| Maine                  | State                 | GA00006               | 09-25-24        |
| Maryland               | State                 | 250                   | 12-31-23        |
| Massachusetts          | State                 | M-GA006               | 06-30-23        |
| Michigan               | State                 | 9925                  | 06-30-23        |
| Mississippi            | State                 | <cert No.>            | 06-30-23        |
| Nebraska               | State                 | NE-OS-7-04            | 06-30-23        |
| New Jersey             | NELAP                 | GA769                 | 06-30-23        |
| New Mexico             | State                 | GA00006               | 06-30-23        |
| New York               | NELAP                 | 10842                 | 04-01-23        |
| North Carolina (DW)    | State                 | 13701                 | 07-31-23        |
| North Carolina (WW/SW) | State                 | 269                   | 12-31-23        |
| Pennsylvania           | NELAP                 | 68-00474              | 06-30-23        |
| Puerto Rico            | State                 | GA00006               | 01-01-24        |
| South Carolina         | State                 | 98001                 | 06-30-23        |
| Tennessee              | State                 | TN02961               | 06-30-23        |
| Texas                  | NELAP                 | T1047004185-19-14     | 11-30-23        |
| Texas                  | TCEQ Water Supply     | T104704185            | 06-30-23        |
| USDA                   | US Federal Programs   | P330-18-00313         | 09-03-24        |
| Virginia               | NELAP                 | 460161                | 06-14-23        |
| Wisconsin              | State                 | 999819810             | 08-31-23        |

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

## Method Summary

Client: Southern Company  
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-230304-3

| Method     | Method Description                                 | Protocol | Laboratory |
|------------|--|----------|------------|
| 6020B      | Metals (ICP/MS)                                    | SW846    | EET SAV    |
| 2320B-2011 | Alkalinity, Total                                  | SM       | EET SAV    |
| 3005A      | Preparation, Total Recoverable or Dissolved Metals | SW846    | EET SAV    |

### Protocol References:

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

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

### Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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## **Chain of Custody Record**

|   |  |                                      |                       |   |  |                                 |                          |                           |   |  |   |
|---|--|--------------------------------------|-----------------------|---|--|---------------------------------|--------------------------|---------------------------|---|--|---|
| Client Information  |  | Sampler<br><i>A Schmitker</i><br>ACC |                       | Lab PM.<br>Fuller David   |  | Carrier Tracking No(s):         |                          | COC No                    |   |  |   |
| Client Contact:<br>SCS Contacts   |  | Phone: 770-594-5998                  |                       | E-Mail: david.fuller@et.eurofinsus.com                              |  |                                 |                          | Page: 1 of 1              |   |  |   |
| Company:<br>GA Power  |  | Analysis Requested                   |                       |   |  |                                 |                          |                           | Job #:  |  |   |
| Address:<br>241 Ralph McGill Blvd SE  |  | Due Date Requested:                  |                       |   |  |                                 |                          |                           |   |  | Preservation Codes.   |
| City:<br>Atlanta  |  | TAT Requested (days)                 |                       |   |  |                                 |                          |                           |   |  | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na204S<br>Q - Na2SO3<br>R - Na252O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |
| State, Zip:<br>GA, 30308  |  | <i>Standard</i>                      |                       |   |  |                                 |                          |                           |   |  |   |
| Phone:<br>404-506-7116(Tel)   |  | Lab Project #:<br>68027747           |                       |   |  |                                 |                          |                           |   |  |   |
| Email:<br>SCS Contacts / ACC Contacts   |  | PO #:                                |                       |   |  |                                 |                          |                           |   |  |   |
| Project Name:<br>Plant McIntosh - Ash Pond 1  |  | Project #:                           |                       |   |  |                                 |                          |                           |   |  |   |
| Site:<br>Georgia  |  | SSOW#:                               |                       |   |  |                                 |                          |                           |   |  |   |
| Sample Identification   |  | Sample Date<br>(mm/dd/yy)            | Sample Time<br>(hhmm) | Sample Type<br>(C=Comp,<br>G=grab)                                  | Matrix<br>(WG=ground<br>water WS=surface<br>water WQ=quality<br>control) | Field Filtered Sample Yes or No | Perform MS/MSB Yes or No | Cations<br>Mg Na K        | Total<br>Carbonate<br>Bicarbonate<br>Alkalinity | Total Number of containers   |   |
|   |  |                                      |                       |   |  | X                               | X                        | D                         | I   |  |   |
| MCI-MGWA-10   |  | 02/07/23                             | 1015                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWA-11   |  | 02/07/23                             | 1210                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWA-5  |  | 02/07/23                             | 1340                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWA-6  |  | 02/07/23                             | 1205                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWA-6A   |  | 02/07/23                             | 1040                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWC-3  |  | 02/07/23                             | 1420                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWC-12   |  | 02/07/23                             | 1505                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWC-1  |  | 02/08/23                             | 1000                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWC-2  |  | 02/08/23                             | 0955                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWC-7  |  | 02/08/23                             | 1150                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| MCI-MGWC-8  |  | 02/08/23                             | 1330                  | G   | WG   | N N                             | ✓ ✓                      |                           |   | 2  |   |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |                                      |                       |   |  |                                 |                          |                           |   | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |   |
| Deliverable Requested I II III IV Other (specify)   |  |                                      |                       |   |  |                                 |                          |                           |   | Special Instructions/QC Requirements Additional Cations magnesium, sodium potassium  |   |
| Empty Kit Relinquished by   |  | Date:                                |                       | Time:   |  | Method of Shipment:             |                          |                           |   |  |   |
| <i>John J.</i>  |  | Date/Time:<br>2-9-23/0845            |                       | Company<br>ACC  |  | <i>Tony J.</i>                  |                          | Date/Time:<br>2-9-23/0845 |   | Company<br>ACC   |   |
| <i>John J.</i>  |  | Date/Time:<br>2-9-23/1000            |                       | Company<br>ACC  |  | <i>John J.</i>                  |                          | Date/Time:<br>2-9-23/1001 |   | Company  |   |
| Relinquished by   |  | Date/Time:                           |                       | Company   |  | Received by                     |                          | Date/Time:                |   | Company  |   |
| Custody Seals Intact:<br>△ Yes △ No   |  | Custody Seal No                      |                       | Cooler Temperature(s) °C and Other Remarks: 3.7/3.7 2.6/2.6 2.1/2.1 |  |                                 |                          |                           |   |  |   |

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-230304-3

**Login Number: 230304**

**List Source: Eurofins Savannah**

**List Number: 1**

**Creator: Johnson, Corey M**

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

Plant McIntosh Ash Pond 1

2023 Semiannual Groundwater Monitoring and Corrective Action Report

**LEVEL 2A LABORATORY DATA VALIDATIONS**

**McIntosh Ash Pond 1**

**Semiannual Event**

**February 2023**

## **Georgia Power Company – McIntosh Ash Pond 1**

### **Quality Control Review of Analytical Data – February 2023**

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah and St. Louis for groundwater samples collected at McIntosh Ash Pond 1 (AP1) between February 7, 2023 and February 8, 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 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III, and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B), Mercury in Liquid Wastes (US EPA Method 7470A), Determination of Inorganic Anions (US EPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (US EPA Method 9315), and Radium-228 (US EPA Method 9320).

Data were reviewed in accordance with the US EPA Region 4 Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)<sup>1</sup> and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)<sup>2</sup>. The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

## DATA QUALITY OBJECTIVES

**Laboratory Precision:** Laboratory goals for precision were met.

**Field Precision:** Field goals for precision were met, except for lithium from MCI-MGWC-2 (680-230304-9), mercury from MCI-MGWC-8 (680-230304-11), and combined radium from MCI-MGWC-8 (680-230304-11) as described in the qualifications section below.

**Accuracy:** Laboratory goals for accuracy were met.

**Detection Limits:** Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

**Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.

**Holding Times:** Holding time requirements were met.

## QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low 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 validation process:

**J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.

**ND:** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The

## Plant McIntosh Ash Pond 1

### 2023 Semiannual Groundwater Monitoring and Corrective Action Report

applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples MCI-MGWC-2 (680-230304-9) and MCI-AP1-FD-01 (680-230304-12) were qualified as estimated (J) for lithium as the relative percent difference (RPD) exceeded QC criteria (24.1% above the limit of 20).
- Samples MCI-MGWC-8 (680-230304-11) and MCI-AP1-FD-02 (680-230304-13) were qualified as estimated (J) for mercury as the RPD exceeded QC criteria (36.4% above the limit of 20).
- Samples MCI-MGWC-8 (680-230304-11) and MCI-AP1-FD-02 (680-230304-13) were qualified as estimated (J) for combined radium as the RPD exceeded QC criteria (34.2 above the limit of 20).
- Certain lithium results on work order 680-230304-1 were qualified as non-detect (ND) due to the analytes being detected at similar concentrations in an associated blank sample. As shown in Table 2, when the original sample result was within the same order of magnitude as the reporting limit (RL), the new RL was raised to the sample result as part of the qualification process. When the original sample result was well above the RL, the sample result was qualified as estimated (J) as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled between February 7, 2023 and February 8, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

## REFERENCES

<sup>1</sup>US EPA, 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

<sup>2</sup>US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1  
2023 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1

Georgia Power Company – McIntosh AP1

Sample Summary Table – February 2023

| SDG      | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples      | Analyses              |                |                |                              |
|----------|----------------------|-----------------|--------------------|--------|-----------------|-----------------------|----------------|----------------|------------------------------|
|          |                      |                 |                    |        |                 | Metals (6020B, 7470A) | Anions (300.0) | TDS (SM 2540C) | Radium-226/-228 (9315, 9320) |
| 230304-1 | MCI-MGWA-10          | 02/07/23        | 680-230304-1       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWA-10          | 02/07/23        | 680-230304-1       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWA-11          | 02/07/23        | 680-230304-2       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWA-11          | 02/07/23        | 680-230304-2       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWA-5           | 02/07/23        | 680-230304-3       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWA-5           | 02/07/23        | 680-230304-3       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWA-6           | 02/07/23        | 680-230304-4       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWA-6           | 02/07/23        | 680-230304-4       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWA-6A          | 02/07/23        | 680-230304-5       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWA-6A          | 02/07/23        | 680-230304-5       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWC-3           | 02/07/23        | 680-230304-6       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWC-3           | 02/07/23        | 680-230304-6       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWC-12          | 02/07/23        | 680-230304-7       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWC-12          | 02/07/23        | 680-230304-7       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWC-1           | 02/08/23        | 680-230304-8       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWC-1           | 02/08/23        | 680-230304-8       | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWC-2           | 02/08/23        | 680-230304-9       | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWC-2           | 02/08/23        | 680-230304-9       | WG     |                 |                       |                |                | X                            |
| 230304-2 | MCI-MGWC-7           | 02/08/23        | 680-230304-10      | WG     |                 | X                     | X              | X              |                              |
| 230304-1 | MCI-MGWC-7           | 02/08/23        | 680-230304-10      | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-MGWC-8           | 02/08/23        | 680-230304-11      | WG     |                 | X                     | X              | X              |                              |
| 230304-2 | MCI-MGWC-8           | 02/08/23        | 680-230304-11      | WG     |                 |                       |                |                | X                            |
| 230304-1 | MCI-AP1-FD-01        | 02/08/23        | 680-230304-12      | WG     | FD (MCI-MGWC-2) | X                     | X              | X              |                              |
| 230304-2 | MCI-AP1-FD-01        | 02/08/23        | 680-230304-12      | WG     | FD (MCI-MGWC-2) |                       |                |                | X                            |
| 230304-1 | MCI-AP1-FD-02        | 02/08/23        | 680-230304-13      | WG     | FD (MCI-MGWC-8) | X                     | X              | X              |                              |
| 230304-2 | MCI-AP1-FD-02        | 02/08/23        | 680-230304-13      | WG     | FD (MCI-MGWC-8) |                       |                |                | X                            |

Abbreviations:

- EB – Equipment Blank
- FB – Field Blank
- FD – Field Duplicate
- QC – Quality Control
- SDG – Sample Delivery Group
- TDS – Total Dissolved Solids
- WG – Groundwater
- WQ – Water Quality Control

Plant McIntosh Ash Pond 1  
2023 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1 (continued)

Georgia Power Company – McIntosh AP1

Sample Summary Table – February 2023

| SDG      | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples | Analyses              |                |                |                              |
|----------|----------------------|-----------------|--------------------|--------|------------|-----------------------|----------------|----------------|------------------------------|
|          |                      |                 |                    |        |            | Metals (6020B, 7470A) | Anions (300.0) | TDS (SM 2540C) | Radium-226/-228 (9315, 9320) |
| 230304-1 | MCI-AP1-FB-01        | 02/07/23        | 680-230304-14      | WQ     | FB         | X                     | X              | X              |                              |
| 230304-2 | MCI-AP1-FB-01        | 02/07/23        | 680-230304-14      | WQ     | FB         |                       |                |                | X                            |
| 230304-1 | MCI-AP1-FB-02        | 02/08/23        | 680-230304-15      | WQ     | FB         | X                     | X              | X              |                              |
| 230304-2 | MCI-AP1-FB-02        | 02/08/23        | 680-230304-15      | WQ     | FB         |                       |                |                | X                            |
| 230304-1 | MCI-AP1-EB-03        | 02/07/23        | 680-230304-16      | WQ     | EB         | X                     | X              | X              |                              |
| 230304-2 | MCI-AP1-EB-03        | 02/07/23        | 680-230304-16      | WQ     | EB         |                       |                |                | X                            |
| 230304-1 | MCI-AP1-EB-04        | 02/08/23        | 680-230304-17      | WQ     | EB         | X                     | X              | X              |                              |
| 230304-2 | MCI-AP1-EB-04        | 02/08/23        | 680-230304-17      | WQ     | EB         |                       |                |                | X                            |

Abbreviations:

EB – Equipment Blank  
FB – Field Blank  
FD – Field Duplicate  
QC – Quality Control  
SDG – Sample Delivery Group  
TDS – Total Dissolved Solids  
WG – Groundwater  
WQ – Water Quality Control

Plant McIntosh Ash Pond 1  
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TABLE 2  
 Georgia Power Company – McIntosh AP1  
 Qualifier Summary Table – February 2023

| SDG      | Field Identification | Constituent     | New RL | New MDL or MDC | Qualifier | Reason                 |
|----------|----------------------|-----------------|--------|----------------|-----------|------------------------|
| 230304-1 | MCI-MGWA-10          | Lithium         | 0.0081 |                | ND        | Blank detection        |
| 230304-1 | MCI-MGWA-11          | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWA-5           | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWC-3           | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWC-12          | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWC-1           | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWC-2           | Lithium         | 0.0065 |                | ND        | Blank detection        |
| 230304-1 | MCI-MGWC-7           | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWC-8           | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-AP1-FD-01        | Lithium         | 0.0051 |                | ND        | Blank detection        |
| 230304-1 | MCI-AP1-FD-02        | Lithium         |        |                | J         | Blank detection        |
| 230304-1 | MCI-MGWC-2           | Lithium         |        |                | J         | RPD exceeds field goal |
| 230304-1 | MCI-AP1-FD-01        | Lithium         |        |                | J         | RPD exceeds field goal |
| 230304-1 | MCI-MGWC-8           | Mercury         |        |                | J         | RPD exceeds field goal |
| 230304-1 | MCI-AP1-FD-02        | Mercury         |        |                | J         | RPD exceeds field goal |
| 230304-2 | MCI-MGWC-8           | Combined Radium |        |                | J         | RPD exceeds field goal |
| 230304-2 | MCI-AP1-FD-02        | Combined Radium |        |                | J         | RPD exceeds field goal |

Abbreviations:

MDC – Minimum Detectable Concentration  
 MS/MSD – Matrix Spike / Matrix Spike Duplicate  
 MDL – Method Detection Limit  
 RL – Reporting Limit  
 RPD – Relative Percent Difference  
 SDG – Sample Delivery Group  
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result  
 ND – Non-Detect Result

Plant McIntosh Ash Pond 1  
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**LEVEL 2A LABORATORY DATA VALIDATIONS**

**McIntosh Ash Pond 1**

**Major Ions Event**

**February 2023**

## **Georgia Power Company – McIntosh Ash Pond 1**

### **Quality Control Review of Analytical Data – February 2023**

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Ash Pond 1 (AP1) between February 7, 2023 and February 8, 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 of this Appendix.

The samples were analyzed for major ion constituents. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B) and Alkalinity in Water (Standard Methods 2320B).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)<sup>1</sup> and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)<sup>2</sup>. The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were 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.
- Detection Limits:** Project goals for detection limits were met.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

## QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low 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 validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ND:** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled between February 7, 2023 and February 8, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

Plant McIntosh Ash Pond 1  
2023 Semiannual Groundwater Monitoring and Corrective Action Report

**REFERENCES**

<sup>1</sup>US EPA, 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

<sup>2</sup>US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1  
 2023 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1  
 Georgia Power Company – McIntosh AP1  
 Sample Summary Table – February 2023

| SDG      | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples | Analyses       |                       |
|----------|----------------------|-----------------|--------------------|--------|------------|----------------|-----------------------|
|          |                      |                 |                    |        |            | Metals (6020B) | Alkalinity (SM 2320B) |
| 230304-3 | MCI-MGWA-10          | 02/07/23        | 680-230304-1       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWA-11          | 02/07/23        | 680-230304-2       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWA-5           | 02/07/23        | 680-230304-3       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWA-6           | 02/07/23        | 680-230304-4       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWA-6A          | 02/07/23        | 680-230304-5       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWC-3           | 02/07/23        | 680-230304-6       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWC-12          | 02/07/23        | 680-230304-7       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWC-1           | 02/08/23        | 680-230304-8       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWC-2           | 02/08/23        | 680-230304-9       | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWC-7           | 02/08/23        | 680-230304-10      | WG     |            | X              | X                     |
| 230304-3 | MCI-MGWC-8           | 02/08/23        | 680-230304-11      | WG     |            | X              | X                     |

Abbreviations:

EB – Equipment Blank  
 FB – Field Blank  
 FD – Field Duplicate  
 WG – Groundwater  
 QC – Quality Control  
 SDG – Sample Delivery Group  
 TDS – Total Dissolved Solids  
 WQ – Water Quality Control

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 1:10:16 PM

Project: Plant McIntosh AP-1

Operator Name: A. Schnittker

|   |   |  |
|---|---|--|
| <b>Location Name:</b> MGWA-5<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 53.09 ft<br><b>Total Depth:</b> 63.09 ft<br><b>Initial Depth to Water:</b> 25.54 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 58 ft<br><b>Estimated Total Volume Pumped:</b><br>5.2 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 175 ml/min<br><b>Final Draw Down:</b> 15 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 843285 |
|---|---|--|

## Test Notes:

Sample time 1340. Sunny 70s.

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 100 | +/- 0.3        |               |
| 2/7/2023 1:10 PM | 00:00        | 8.00 pH | 22.54 °C    | 124.48 µS/cm          | 5.56 mg/L         | 1.55 NTU  | 65.3 mV | 25.54 ft       | 175.00 ml/min |
| 2/7/2023 1:15 PM | 05:00        | 7.95 pH | 22.15 °C    | 126.80 µS/cm          | 5.54 mg/L         | 1.83 NTU  | 63.1 mV | 26.80 ft       | 175.00 ml/min |
| 2/7/2023 1:20 PM | 10:00        | 7.88 pH | 22.07 °C    | 127.72 µS/cm          | 5.30 mg/L         | 1.94 NTU  | 63.7 mV | 26.80 ft       | 175.00 ml/min |
| 2/7/2023 1:25 PM | 15:00        | 7.87 pH | 22.00 °C    | 128.54 µS/cm          | 5.17 mg/L         | 1.95 NTU  | 67.1 mV | 26.80 ft       | 175.00 ml/min |
| 2/7/2023 1:30 PM | 20:00        | 7.85 pH | 22.03 °C    | 128.69 µS/cm          | 4.74 mg/L         | 1.47 NTU  | 67.4 mV | 26.80 ft       | 175.00 ml/min |
| 2/7/2023 1:35 PM | 25:00        | 7.85 pH | 21.94 °C    | 128.80 µS/cm          | 4.68 mg/L         | 1.60 NTU  | 67.5 mV | 26.80 ft       | 175.00 ml/min |
| 2/7/2023 1:40 PM | 30:00        | 7.85 pH | 21.94 °C    | 128.61 µS/cm          | 4.42 mg/L         | 1.87 NTU  | 67.5 mV | 26.80 ft       | 175.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 11:35:04 AM

Project: Plant McIntosh AP-1

Operator Name: D. Johnson

|   |  |  |
|---|--|--|
| <b>Location Name:</b> MGWA-6<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 32.14 ft<br><b>Total Depth:</b> 42.14 ft<br><b>Initial Depth to Water:</b> 24.91 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 37 ft<br><b>Estimated Total Volume Pumped:</b><br>4.5 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 150 ml/min<br><b>Final Draw Down:</b> 2.16 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884186 |
|---|--|--|

## Test Notes:

Sample time 1205. Sunny, 65 degrees F.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300  | +/- 10         |               |
| 2/7/2023 11:35 AM | 00:00        | 7.27 pH | 28.36 °C    | 0.45 µS/cm            | 2.38 mg/L         | 4.24 NTU  | 11.2 mV  | 24.91 ft       | 150.00 ml/min |
| 2/7/2023 11:40 AM | 05:00        | 7.16 pH | 23.06 °C    | 0.50 µS/cm            | 0.37 mg/L         | 4.11 NTU  | -17.1 mV | 25.09 ft       | 150.00 ml/min |
| 2/7/2023 11:45 AM | 10:00        | 7.15 pH | 22.47 °C    | 0.50 µS/cm            | 0.24 mg/L         | 3.90 NTU  | -23.6 mV | 25.09 ft       | 150.00 ml/min |
| 2/7/2023 11:50 AM | 15:00        | 7.15 pH | 22.32 °C    | 0.50 µS/cm            | 0.23 mg/L         | 3.77 NTU  | -2.2 mV  | 25.09 ft       | 150.00 ml/min |
| 2/7/2023 11:55 AM | 20:00        | 7.15 pH | 22.24 °C    | 0.50 µS/cm            | 0.20 mg/L         | 3.58 NTU  | -12.9 mV | 25.09 ft       | 150.00 ml/min |
| 2/7/2023 12:00 PM | 25:00        | 7.14 pH | 22.29 °C    | 0.50 µS/cm            | 0.19 mg/L         | 2.98 NTU  | -13.3 mV | 25.09 ft       | 150.00 ml/min |
| 2/7/2023 12:05 PM | 30:00        | 7.13 pH | 22.45 °C    | 0.50 µS/cm            | 0.16 mg/L         | 3.00 NTU  | 2.0 mV   | 25.09 ft       | 150.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 9:45:05 AM

Project: Plant McIntosh AP-1

Operator Name: D. Johnson

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWA-6A<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 32.44 ft<br><b>Total Depth:</b> 42.44 ft<br><b>Initial Depth to Water:</b> 23.34 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 37 ft<br><b>Estimated Total Volume Pumped:</b><br>8.25 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 150 ml/min<br><b>Final Draw Down:</b> 12 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884186 |
|--|---|--|

## Test Notes:

Sample time-1040. Sunny.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP       | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300   | +/- 10         |               |
| 2/7/2023 9:45 AM  | 00:00        | 6.79 pH | 22.10 °C    | 0.46 µS/cm            | 2.43 mg/L         | 10.10 NTU | -44.8 mV  | 23.34 ft       | 150.00 ml/min |
| 2/7/2023 9:50 AM  | 05:00        | 7.14 pH | 20.34 °C    | 0.48 µS/cm            | 0.49 mg/L         | 13.10 NTU | -77.0 mV  | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 9:55 AM  | 10:00        | 7.21 pH | 20.66 °C    | 0.48 µS/cm            | 0.45 mg/L         | 14.20 NTU | -107.0 mV | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:00 AM | 15:00        | 7.23 pH | 20.88 °C    | 0.48 µS/cm            | 0.39 mg/L         | 12.60 NTU | -77.1 mV  | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:05 AM | 20:00        | 7.23 pH | 20.99 °C    | 0.48 µS/cm            | 0.34 mg/L         | 11.00 NTU | -105.9 mV | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:10 AM | 25:00        | 7.24 pH | 21.21 °C    | 0.48 µS/cm            | 0.31 mg/L         | 9.96 NTU  | -76.9 mV  | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:15 AM | 30:00        | 7.24 pH | 21.36 °C    | 0.48 µS/cm            | 0.26 mg/L         | 9.54 NTU  | -106.1 mV | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:20 AM | 35:00        | 7.24 pH | 21.41 °C    | 0.48 µS/cm            | 0.26 mg/L         | 8.54 NTU  | -78.8 mV  | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:25 AM | 40:00        | 7.24 pH | 21.51 °C    | 0.48 µS/cm            | 0.21 mg/L         | 6.67 NTU  | -107.9 mV | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:30 AM | 45:00        | 7.24 pH | 21.64 °C    | 0.48 µS/cm            | 0.18 mg/L         | 5.60 NTU  | -79.2 mV  | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:35 AM | 50:00        | 7.24 pH | 21.66 °C    | 0.48 µS/cm            | 0.15 mg/L         | 4.22 NTU  | -108.3 mV | 24.34 ft       | 150.00 ml/min |
| 2/7/2023 10:40 AM | 55:00        | 7.24 pH | 21.82 °C    | 0.48 µS/cm            | 0.14 mg/L         | 3.94 NTU  | -108.0 mV | 24.34 ft       | 150.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 9:35:03 AM

Project: Plant McIntosh AP-1

Operator Name: A. Schnittker

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWA-10<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 43.09 ft<br><b>Total Depth:</b> 53.09 ft<br><b>Initial Depth to Water:</b> 18.56 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 48 ft<br><b>Estimated Total Volume Pumped:</b><br>4 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 100 ml/min<br><b>Final Draw Down:</b> 35 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 843285 |
|--|---|--|

## Test Notes:

Sample time 1015. Sunny 60s.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 100  | +/- 0.3        |               |
| 2/7/2023 9:35 AM  | 00:00        | 6.69 pH | 17.85 °C    | 41.78 µS/cm           | 6.21 mg/L         | 1.86 NTU  | 168.8 mV | 18.56 ft       | 100.00 ml/min |
| 2/7/2023 9:40 AM  | 05:00        | 5.78 pH | 19.58 °C    | 36.05 µS/cm           | 3.77 mg/L         | 1.17 NTU  | 138.5 mV | 19.60 ft       | 100.00 ml/min |
| 2/7/2023 9:45 AM  | 10:00        | 5.46 pH | 20.29 °C    | 31.04 µS/cm           | 2.61 mg/L         | 0.47 NTU  | 137.0 mV | 20.00 ft       | 100.00 ml/min |
| 2/7/2023 9:50 AM  | 15:00        | 5.62 pH | 20.35 °C    | 34.16 µS/cm           | 3.22 mg/L         | 0.42 NTU  | 127.9 mV | 20.50 ft       | 100.00 ml/min |
| 2/7/2023 9:55 AM  | 20:00        | 5.58 pH | 20.50 °C    | 33.57 µS/cm           | 3.00 mg/L         | 0.52 NTU  | 124.6 mV | 20.80 ft       | 100.00 ml/min |
| 2/7/2023 10:00 AM | 25:00        | 5.54 pH | 20.62 °C    | 32.95 µS/cm           | 2.88 mg/L         | 0.83 NTU  | 123.0 mV | 21.40 ft       | 100.00 ml/min |
| 2/7/2023 10:05 AM | 30:00        | 5.45 pH | 20.67 °C    | 31.90 µS/cm           | 2.61 mg/L         | 0.74 NTU  | 122.3 mV | 21.40 ft       | 100.00 ml/min |
| 2/7/2023 10:10 AM | 35:00        | 5.44 pH | 20.89 °C    | 32.22 µS/cm           | 2.51 mg/L         | 0.69 NTU  | 120.1 mV | 21.50 ft       | 100.00 ml/min |
| 2/7/2023 10:15 AM | 40:00        | 5.46 pH | 20.96 °C    | 32.58 µS/cm           | 2.39 mg/L         | 0.72 NTU  | 118.5 mV | 21.50 ft       | 100.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|            |              |

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 11:35:13 AM

Project: Plant McIntosh AP-1

Operator Name: A. Schnittker

|  |  |  |
|--|--|--|
| <b>Location Name:</b> MGWA-11<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 45.81 ft<br><b>Total Depth:</b> 55.81 ft<br><b>Initial Depth to Water:</b> 22.93 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 50 ft<br><b>Estimated Total Volume Pumped:</b><br>6.4 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 185 ml/min<br><b>Final Draw Down:</b> 6 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 843285 |
|--|--|--|

## Test Notes:

Sample time 1210. Sunny 60s.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 100  | +/- 0.3        |               |
| 2/7/2023 11:35 AM | 00:00        | 7.23 pH | 25.36 °C    | 129.86 µS/cm          | 0.74 mg/L         | 0.67 NTU  | 84.6 mV  | 22.93 ft       | 185.00 ml/min |
| 2/7/2023 11:40 AM | 05:00        | 7.63 pH | 23.23 °C    | 137.26 µS/cm          | 0.39 mg/L         | 0.56 NTU  | 75.7 mV  | 23.40 ft       | 185.00 ml/min |
| 2/7/2023 11:45 AM | 10:00        | 7.74 pH | 23.05 °C    | 137.68 µS/cm          | 0.28 mg/L         | 0.47 NTU  | 71.4 mV  | 23.40 ft       | 185.00 ml/min |
| 2/7/2023 11:50 AM | 15:00        | 7.76 pH | 23.05 °C    | 137.53 µS/cm          | 0.20 mg/L         | 0.58 NTU  | 67.0 mV  | 23.40 ft       | 185.00 ml/min |
| 2/7/2023 11:55 AM | 20:00        | 7.77 pH | 23.01 °C    | 137.40 µS/cm          | 0.12 mg/L         | 0.61 NTU  | 63.7 mV  | 23.40 ft       | 185.00 ml/min |
| 2/7/2023 12:00 PM | 25:00        | 7.77 pH | 23.01 °C    | 140.13 µS/cm          | 0.11 mg/L         | 0.66 NTU  | 60.8 mV  | 23.40 ft       | 185.00 ml/min |
| 2/7/2023 12:05 PM | 30:00        | 7.73 pH | 22.97 °C    | 146.98 µS/cm          | 0.09 mg/L         | 0.75 NTU  | -15.5 mV | 23.40 ft       | 185.00 ml/min |
| 2/7/2023 12:10 PM | 35:00        | 7.72 pH | 23.11 °C    | 147.26 µS/cm          | 0.08 mg/L         | 0.86 NTU  | -29.8 mV | 23.40 ft       | 185.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|            |              |

# Low-Flow Test Report:

Test Date / Time: 2/8/2023 9:30:26 AM

Project: Plant McIntosh AP-1

Operator Name: A. Schnittker

|   |  |  |
|---|--|--|
| <b>Location Name:</b> MGWC-1<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 46.08 ft<br><b>Total Depth:</b> 56.08 ft<br><b>Initial Depth to Water:</b> 40.31 ft | <b>Pump Type:</b> Portable Bladder Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 51 ft<br><b>Estimated Total Volume Pumped:</b><br>6.7 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 225 ml/min<br><b>Final Draw Down:</b> 17 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 843285 |
|---|--|--|

## Test Notes:

Sample time 1000. Sunny 60s. FB-02 here at 1025.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 100  | +/- 0.3        |               |
| 2/8/2023 9:30 AM  | 00:00        | 7.17 pH | 18.51 °C    | 471.73 µS/cm          | 0.71 mg/L         | 11.60 NTU | 177.4 mV | 40.31 ft       | 225.00 ml/min |
| 2/8/2023 9:35 AM  | 05:00        | 7.23 pH | 19.30 °C    | 465.97 µS/cm          | 0.41 mg/L         | 14.10 NTU | 149.7 mV | 41.70 ft       | 225.00 ml/min |
| 2/8/2023 9:40 AM  | 10:00        | 7.24 pH | 19.44 °C    | 440.43 µS/cm          | 0.50 mg/L         | 9.89 NTU  | 129.9 mV | 41.70 ft       | 225.00 ml/min |
| 2/8/2023 9:45 AM  | 15:00        | 7.26 pH | 19.56 °C    | 454.07 µS/cm          | 0.40 mg/L         | 9.48 NTU  | 115.6 mV | 41.70 ft       | 225.00 ml/min |
| 2/8/2023 9:50 AM  | 20:00        | 7.26 pH | 19.62 °C    | 456.43 µS/cm          | 0.37 mg/L         | 9.02 NTU  | 102.9 mV | 41.70 ft       | 225.00 ml/min |
| 2/8/2023 9:55 AM  | 25:00        | 7.28 pH | 19.75 °C    | 462.81 µS/cm          | 0.34 mg/L         | 5.98 NTU  | 92.1 mV  | 41.70 ft       | 225.00 ml/min |
| 2/8/2023 10:00 AM | 30:00        | 7.28 pH | 19.88 °C    | 461.75 µS/cm          | 0.32 mg/L         | 3.71 NTU  | 84.3 mV  | 41.70 ft       | 225.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/8/2023 9:25:03 AM

Project: Plant McIntosh AP-1

Operator Name: D. Johnson

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWC-2<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 27.9 ft<br><b>Total Depth:</b> 37.29 ft<br><b>Initial Depth to Water:</b> 21.81 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 33 ft<br><b>Estimated Total Volume Pumped:</b><br>6 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 200 ml/min<br><b>Final Draw Down:</b> 14.04 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884186 |
|--|---|--|

## Test Notes:

Sunny, 55 Degrees F. sample time 0955.

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300  | +/- 10         |               |
| 2/8/2023 9:25 AM | 00:00        | 7.16 pH | 17.86 °C    | 830.83 µS/cm          | 0.61 mg/L         | 76.30 NTU | 67.9 mV  | 21.81 ft       | 200.00 ml/min |
| 2/8/2023 9:30 AM | 05:00        | 7.37 pH | 19.24 °C    | 752.35 µS/cm          | 0.26 mg/L         | 72.80 NTU | 8.5 mV   | 21.81 ft       | 200.00 ml/min |
| 2/8/2023 9:35 AM | 10:00        | 7.41 pH | 19.46 °C    | 754.74 µS/cm          | 0.20 mg/L         | 17.30 NTU | 11.2 mV  | 22.98 ft       | 200.00 ml/min |
| 2/8/2023 9:40 AM | 15:00        | 7.41 pH | 19.65 °C    | 746.43 µS/cm          | 0.17 mg/L         | 8.65 NTU  | -8.9 mV  | 22.98 ft       | 200.00 ml/min |
| 2/8/2023 9:45 AM | 20:00        | 7.42 pH | 19.86 °C    | 751.15 µS/cm          | 0.15 mg/L         | 3.99 NTU  | 5.3 mV   | 22.98 ft       | 200.00 ml/min |
| 2/8/2023 9:50 AM | 25:00        | 7.44 pH | 19.88 °C    | 745.48 µS/cm          | 0.13 mg/L         | 3.53 NTU  | -15.6 mV | 22.98 ft       | 200.00 ml/min |
| 2/8/2023 9:55 AM | 30:00        | 7.44 pH | 20.08 °C    | 752.45 µS/cm          | 0.12 mg/L         | 2.89 NTU  | 2.9 mV   | 22.98 ft       | 200.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 1:50:03 PM

Project: Plant McIntosh AP-1

Operator Name: D. Johnson

|  |  |  |
|--|--|--|
| <b>Location Name:</b> MGWC-3<br><b>Well Diameter:</b> 2 ft<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 28 ft<br><b>Total Depth:</b> 38.98 ft<br><b>Initial Depth to Water:</b> 21.32 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 33 ft<br><b>Estimated Total Volume Pumped:</b><br>5.25 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 175 ml/min<br><b>Final Draw Down:</b> 4.2 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884186 |
|--|--|--|

## Test Notes:

Sunny, 65 degrees F. Sample time 1420

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300 | +/- 10         |               |
| 2/7/2023 1:50 PM | 00:00        | 7.09 pH | 22.24 °C    | 0.62 µS/cm            | 1.20 mg/L         | 3.20 NTU  | 59.5 mV | 21.32 ft       | 175.00 ml/min |
| 2/7/2023 1:55 PM | 05:00        | 7.04 pH | 20.56 °C    | 0.63 µS/cm            | 0.24 mg/L         | 2.37 NTU  | 75.4 mV | 21.67 ft       | 175.00 ml/min |
| 2/7/2023 2:00 PM | 10:00        | 7.03 pH | 20.34 °C    | 0.63 µS/cm            | 0.18 mg/L         | 2.05 NTU  | 74.9 mV | 21.67 ft       | 175.00 ml/min |
| 2/7/2023 2:05 PM | 15:00        | 7.02 pH | 20.26 °C    | 0.63 µS/cm            | 0.15 mg/L         | 1.59 NTU  | 59.2 mV | 21.67 ft       | 175.00 ml/min |
| 2/7/2023 2:10 PM | 20:00        | 7.02 pH | 20.37 °C    | 0.63 µS/cm            | 0.13 mg/L         | 1.77 NTU  | 69.0 mV | 21.67 ft       | 175.00 ml/min |
| 2/7/2023 2:15 PM | 25:00        | 7.01 pH | 20.22 °C    | 0.63 µS/cm            | 0.12 mg/L         | 1.52 NTU  | 55.9 mV | 21.67 ft       | 175.00 ml/min |
| 2/7/2023 2:20 PM | 30:00        | 7.01 pH | 20.16 °C    | 0.63 µS/cm            | 0.12 mg/L         | 1.36 NTU  | 63.2 mV | 21.67 ft       | 175.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/8/2023 11:19:05 AM

Project: Plant McIntosh AP-1

Operator Name: D. Johnson

|  |  |  |
|--|--|--|
| <b>Location Name:</b> MGWC-7<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 32.3 ft<br><b>Total Depth:</b> 42.29 ft<br><b>Initial Depth to Water:</b> 24.65 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 38 ft<br><b>Estimated Total Volume Pumped:</b><br>3.6 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 120 ml/min<br><b>Final Draw Down:</b> 4.56 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884186 |
|--|--|--|

## Test Notes:

Sunny, 67 degrees F. Sample time 1150

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP       | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300   | +/- 10         |               |
| 2/8/2023 11:19 AM | 00:00        | 7.57 pH | 23.13 °C    | 600.30 µS/cm          | 0.95 mg/L         | 4.53 NTU  | -68.6 mV  | 24.65 ft       | 120.00 ml/min |
| 2/8/2023 11:24 AM | 05:00        | 7.56 pH | 22.86 °C    | 608.51 µS/cm          | 0.43 mg/L         | 6.57 NTU  | -74.5 mV  | 25.03 ft       | 120.00 ml/min |
| 2/8/2023 11:29 AM | 10:00        | 7.56 pH | 23.07 °C    | 607.18 µS/cm          | 0.30 mg/L         | 7.45 NTU  | -74.7 mV  | 25.03 ft       | 120.00 ml/min |
| 2/8/2023 11:34 AM | 15:00        | 7.56 pH | 22.99 °C    | 608.15 µS/cm          | 0.23 mg/L         | 4.95 NTU  | -104.3 mV | 25.03 ft       | 120.00 ml/min |
| 2/8/2023 11:39 AM | 20:00        | 7.52 pH | 22.86 °C    | 608.61 µS/cm          | 0.20 mg/L         | 4.48 NTU  | -64.2 mV  | 25.03 ft       | 120.00 ml/min |
| 2/8/2023 11:44 AM | 25:00        | 7.46 pH | 23.34 °C    | 603.69 µS/cm          | 0.19 mg/L         | 3.83 NTU  | -88.3 mV  | 25.03 ft       | 120.00 ml/min |
| 2/8/2023 11:49 AM | 30:00        | 7.43 pH | 23.17 °C    | 601.10 µS/cm          | 0.17 mg/L         | 3.98 NTU  | -53.4 mV  | 25.03 ft       | 120.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/8/2023 1:00:15 PM

Project: Plant McIntosh AP-1

Operator Name: A. Schnittker

|   |   |  |
|---|---|--|
| <b>Location Name:</b> MGWC-8<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 42.56 ft<br><b>Total Depth:</b> 52.56 ft<br><b>Initial Depth to Water:</b> 34.98 ft | <b>Pump Type:</b> Portable Bladder Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 47 ft<br><b>Estimated Total Volume Pumped:</b><br>6.7 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 225 ml/min<br><b>Final Draw Down:</b> 4 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 843285 |
|---|---|--|

## Test Notes:

Sample time 1330. Sunny 70s. FD-02 here.

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 100  | +/- 0.3        |               |
| 2/8/2023 1:00 PM | 00:00        | 6.81 pH | 26.96 °C    | 481.17 µS/cm          | 1.79 mg/L         | 3.78 NTU  | -49.5 mV | 34.98 ft       | 225.00 ml/min |
| 2/8/2023 1:05 PM | 05:00        | 7.28 pH | 23.73 °C    | 565.03 µS/cm          | 0.49 mg/L         | 3.33 NTU  | -23.9 mV | 35.20 ft       | 225.00 ml/min |
| 2/8/2023 1:10 PM | 10:00        | 7.18 pH | 22.78 °C    | 560.90 µS/cm          | 0.26 mg/L         | 3.24 NTU  | -22.1 mV | 35.30 ft       | 225.00 ml/min |
| 2/8/2023 1:15 PM | 15:00        | 6.96 pH | 22.48 °C    | 542.51 µS/cm          | 0.17 mg/L         | 3.13 NTU  | -6.5 mV  | 35.30 ft       | 225.00 ml/min |
| 2/8/2023 1:20 PM | 20:00        | 6.83 pH | 22.38 °C    | 534.51 µS/cm          | 0.15 mg/L         | 1.06 NTU  | -8.1 mV  | 35.30 ft       | 225.00 ml/min |
| 2/8/2023 1:25 PM | 25:00        | 6.77 pH | 22.25 °C    | 534.95 µS/cm          | 0.13 mg/L         | 1.10 NTU  | -6.5 mV  | 35.30 ft       | 225.00 ml/min |
| 2/8/2023 1:30 PM | 30:00        | 6.76 pH | 22.16 °C    | 536.42 µS/cm          | 0.11 mg/L         | 0.88 NTU  | -5.7 mV  | 35.30 ft       | 225.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 2/7/2023 2:35:14 PM

Project: Plant McIntosh AP-1

Operator Name: A. Schnittker

|  |  |  |
|--|--|--|
| <b>Location Name:</b> MGWC-12<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 42.9 ft<br><b>Total Depth:</b> 52.9 ft<br><b>Initial Depth to Water:</b> 28.57 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 47 ft<br><b>Estimated Total Volume Pumped:</b><br>4.5 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 150 ml/min<br><b>Final Draw Down:</b> 9 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 843285 |
|--|--|--|

## Test Notes:

Sample time 15:05. Sunny 70s.

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 100 | +/- 0.3        |               |
| 2/7/2023 2:35 PM | 00:00        | 7.06 pH | 20.91 °C    | 146.11 µS/cm          | 0.28 mg/L         | 1.12 NTU  | 61.9 mV | 28.57 ft       | 150.00 ml/min |
| 2/7/2023 2:40 PM | 05:00        | 6.99 pH | 20.38 °C    | 151.81 µS/cm          | 0.19 mg/L         | 1.09 NTU  | 53.6 mV | 29.30 ft       | 150.00 ml/min |
| 2/7/2023 2:45 PM | 10:00        | 6.97 pH | 20.33 °C    | 151.44 µS/cm          | 0.15 mg/L         | 1.11 NTU  | 51.0 mV | 29.30 ft       | 150.00 ml/min |
| 2/7/2023 2:50 PM | 15:00        | 6.96 pH | 20.20 °C    | 151.94 µS/cm          | 0.12 mg/L         | 1.18 NTU  | 49.1 mV | 29.30 ft       | 150.00 ml/min |
| 2/7/2023 2:55 PM | 20:00        | 6.96 pH | 20.55 °C    | 151.11 µS/cm          | 0.10 mg/L         | 1.14 NTU  | 48.2 mV | 29.30 ft       | 150.00 ml/min |
| 2/7/2023 3:00 PM | 25:00        | 6.96 pH | 20.42 °C    | 151.59 µS/cm          | 0.10 mg/L         | 1.13 NTU  | 47.5 mV | 29.30 ft       | 150.00 ml/min |
| 2/7/2023 3:05 PM | 30:00        | 6.95 pH | 20.29 °C    | 151.68 µS/cm          | 0.10 mg/L         | 1.08 NTU  | 40.9 mV | 29.30 ft       | 150.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: A. Schnittler  
WATER LEVEL: Solinst  
WATER LEVEL S/N: 377060

INSTRUMENT S/N: 884186    843285  
INSTRUMENT TYPE: AquaTroll  
CAL. SOLUTION/S: ID: pH 4    LOT #: 26E870    EXP. DATE: 5/24  
ID: pH 7    LOT #: 161340    EXP. DATE: 12/23  
ID: pH 10    LOT #: 266018    EXP. DATE: 7/24  
ID: Con    LOT #: 26F806    EXP. DATE: 6/23  
ID: ORP    LOT #: 21140143    EXP. DATE: 4/23    *Midday pH check*  
ID:            LOT #:            EXP. DATE:            *Must be less than .10*  
ID:            LOT #:            EXP. DATE:            *(6.90-7.10 range)*  
*Recalibrate if not within range*

Calibration Date: 2/7/23  
RDO: 100% sat. = 96.31    *Midday pH check*  
PH: 4.00 = 3.83    7.00 = 7.08    10.00 = 10.17    7.0 = 7.01  
PH Recal (if needed): 4.00 = NA    7.00 = NA    10.00 = NA    7.0 = NA    post recal check  
CONDUCTIVITY: 1413 = 1428.7  
ORP (mV) 228 = 255

Calibration Date: 2/8/23  
RDO: 100% sat. = 107.30    *Midday pH check*  
PH: 4.00 = 4.10    7.00 = 7.10    10.00 = 10.06    7.0 = 7.03  
PH Recal (if needed): 4.00 =    7.00 =    10.00 =    7.0 =    post recal check  
CONDUCTIVITY: 1413 = 1312  
ORP (mV) 228 = 236.1

Calibration Date:  
RDO: 100% sat. =    *Midday pH check*  
PH: 4.00 =    7.00 =    10.00 =    7.0 =  
PH Recal (if needed): 4.00 =    7.00 =    10.00 =    7.0 =    post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:  
RDO: 100% sat. =    *Midday pH check*  
PH: 4.00 =    7.00 =    10.00 =    7.0 =  
PH Recal (if needed): 4.00 =    7.00 =    10.00 =    7.0 =    post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:  
RDO: 100% sat. =    *Midday pH check*  
PH: 4.00 =    7.00 =    10.00 =    7.0 =  
PH Recal (if needed): 4.00 =    7.00 =    10.00 =    7.0 =    post recal check  
CONDUCTIVITY: =  
ORP (mV) =



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: A. Schmitz

INSTRUMENT S/N: 22090D000108

INSTRUMENT TYPE: Hach 2100Q

CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI Water

10 NTU - LOT # A 2264 EXP. DATE: 1/24

20 NTU - LOT # A 2231 EXP. DATE: 12/23

Calibration Date: 2/7/23

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.54</u>        | NTU |
| 10.0                 | <u>10.3</u>        | NTU |
| 20.0                 | <u>20.4</u>        | NTU |

Calibration Date: 2/8/23

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | <u>0.27</u>        | NTU |
| 10.0                 | <u>9.40</u>        | NTU |
| 20.0                 | <u>20.3</u>        | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: Dever Johnson

WATER LEVEL: Scinist  
WATER LEVEL S/N: 530984

INSTRUMENT S/N: 884186  
INSTRUMENT TYPE: AquaTroll 530984  
CAL. SOLUTION/S: ID: ORP LOT #: 22200085 EXP. DATE: 08/23  
ID: pH 4 LOT #: 21470032 EXP. DATE: 04/23  
ID: pH 7 LOT #: 22190109 EXP. DATE: 07/23  
ID: pH 10 LOT #: 22110130 EXP. DATE: 08/23  
ID: Conduct. LOT #: 261642 EXP. DATE: 09/23  
ID: LOT #: EXP. DATE:  
ID: LOT #: EXP. DATE:

*Midday pH check*

*Must be less than .10*

(6.90-7.10 range)

*Recalibrate if not within range*

Calibration Date: 2/7/23

RDO: 100% sat. = 95.88% *Midday pH check*  
PH: 4.00 = 4.01 7.00 = 7.05 10.00 = 10.29 7.0 = 7.05  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: 1.413 = 70.3174  
ORP (mV) 228 = 265.6

Calibration Date: 2/8/23

RDO: 100% sat. = 101.01 *Midday pH check*  
PH: 4.00 = 4.06 7.00 = 7.03 10.00 = 10.09 7.0 = 7.04  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: 1.431 = 1.141  
ORP (mV) 228 = 237.8

Calibration Date:

RDO: 100% sat. = *Midday pH check*  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: 1.431 = 1.141  
ORP (mV) =

Calibration Date:

RDO: 100% sat. = *Midday pH check*  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:

RDO: 100% sat. = *Midday pH check*  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: Dover Johnson

INSTRUMENT'S/N: 2207D0000463  
INSTRUMENT TYPE: Hach 2100Q  
CAL. SOLUTION: 0 NTU - LOT # — EXP. DATE: — DI water  
10 NTU - LOT # A2264 EXP. DATE: 11/24  
20 NTU - LOT # A2231 EXP. DATE: 12/12/3

Calibration Date: 2/7/23

| Calibration Solution | Instrument Reading | NTU |
|----------------------|--------------------|-----|
| 0.0                  | 0.21               | NTU |
| 10.0                 | 10.1               | NTU |
| 20.0                 | 20.3               | NTU |

Calibration Date: 2/8/23

| Calibration Solution | Instrument Reading | NTU |
|----------------------|--------------------|-----|
| 0.0                  | 0.18               | NTU |
| 10.0                 | 9.69               | NTU |
| 20.0                 | 19.9               | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | NTU |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | NTU |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | NTU |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | NTU |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| <u>1 - Location/Identification</u> |  | MGWA-5 | MGWA-6 | MGWA-6A | MGWA-9 | MGWA-10 | MGWA-11 | MGWC-1 | MGWC-2 | MGWC-3 | MGWC-4 | MGWC-7 |
|------------------------------------|--|--------|--------|---------|--------|---------|---------|--------|--------|--------|--------|--------|
| a                                  | Is the well visible and accessible?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| b                                  | Is the well properly identified with the correct well ID?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| c                                  | Does the well require protection from traffic?   | No     | No     | No      | No     | No      | No      | No     | No     | No     | No     | No     |
| d                                  | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| 2 - Protective Outer Casing |  | MGWA-5 | MGWA-6 | MGWA-6A | MGWA-9 | MGWA-10 | MGWA-11 | MGWC-1 | MGWC-2 | MGWC-3 | MGWC-4 | MGWC-7 |
|-----------------------------|--|--------|--------|---------|--------|---------|---------|--------|--------|--------|--------|--------|
| a                           | Is the protective casing free from apparent damage?                  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| b                           | Is the casing free of degradation or deterioration?                  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| c                           | Does the casing have a functioning weep hole?                        | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| d                           | Is the annular space between casings filled with pea gravel or sand? | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| e                           | Is the well locked, and is the lock in good working condition?       | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| 3 - Surface Pad |   | MGWA-5 | MGWA-6 | MGWA-6A | MGWA-9 | MGWA-10 | MGWA-11 | MGWC-1 | MGWC-2 | MGWC-3 | MGWC-4 | MGWC-7 |
|-----------------|---|--------|--------|---------|--------|---------|---------|--------|--------|--------|--------|--------|
| a               | Is the well pad in good condition? (Not cracked or broken)  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| b               | Does the well pad provide adequate surface seal and stability to the well?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| c               | Is the well pad in complete contact with the protective casing?   | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| d               | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| e               | Is the pad surface clean? (Not covered by soil or debris)   | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| 4 - Internal Well Casing |  | MGWA-5 | MGWA-6 | MGWA-6A | MGWA-9 | MGWA-10 | MGWA-11 | MGWC-1 | MGWC-2 | MGWC-3 | MGWC-4 | MGWC-7 |
|--------------------------|--|--------|--------|---------|--------|---------|---------|--------|--------|--------|--------|--------|
| a                        | Does the well cap prevent entry of foreign material into the well?   | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| b                        | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| c                        | Does the well have a venting hole near the top of casing?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| d                        | Is the survey point clearly marked on the inner casing?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| e                        | Is the depth of the well consistent with the original well log?  | Yes    | Yes    | Yes     | Yes    | Yes     | Yes     | Yes    | Yes    | Yes    | Yes    | Yes    |
| f                        | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No     | No     | No      | No     | No      | No      | No     | No     | No     | No     | No     |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



**5 - Sampling (Groundwater Monitoring Wells Only):**

|   |  | <b>MGWA-5</b> | <b>MGWA-6</b> | <b>MGWA-6A</b> | <b>MGWA-9</b> | <b>MGWA-10</b> | <b>MGWA-11</b> | <b>MGWC-1</b> | <b>MGWC-2</b> | <b>MGWC-3</b> | <b>MGWC-4</b> | <b>MGWC-7</b> |
|---|--|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|
| a | Does the well recharge adequately when purged?                                   | Yes           | Yes           | Yes            | N/A           | Yes            | Yes            | Yes           | Yes           | Yes           | N/A           | Yes           |
| b | If dedicated sampling equipment is installed, is it in good condition?           | N/A           | N/A           | N/A            | N/A           | N/A            | N/A            | N/A           | N/A           | N/A           | N/A           | N/A           |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | No            | No            | No             | N/A           | No             | No             | No            | No            | No            | N/A           | No            |

Note: N/A - Not Applicable

**6 - Based on your professional judgment, is the well construction / location appropriate to:**

|  | <b>MGWA-5</b>   | <b>MGWA-6</b> | <b>MGWA-6A</b> | <b>MGWA-9</b> | <b>MGWA-10</b> | <b>MGWA-11</b> | <b>MGWC-1</b> | <b>MGWC-2</b> | <b>MGWC-3</b> | <b>MGWC-4</b> | <b>MGWC-7</b> |
|--|---|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|
|  | 1) achieve the objectives of the facility Groundwater Monitoring Program, and<br>2) comply with the applicable regulatory requirements? | Yes           | Yes            | Yes           | Yes            | Yes            | Yes           | Yes           | Yes           | Yes           | Yes           |

**7 - Corrective actions completed and Notes:**

Staff: A. Schnittker  
Date: 2/6/2023

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| <u>1 - Location/Identification</u> |  | MGWC-8 | MGWC-12 | MGWC-19 | MGWC-20 | MGWC-21 | MGWC-22 | MGWC-23 | MGWC-24 | PZ-13 | PZ-14 | PZ-15 |
|------------------------------------|--|--------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
| a                                  | Is the well visible and accessible?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| b                                  | Is the well properly identified with the correct well ID?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| c                                  | Does the well require protection from traffic?   | No     | No      | No      | No      | No      | No      | No      | No      | No    | No    | No    |
| d                                  | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| 2 - Protective Outer Casing |  | MGWC-8 | MGWC-12 | MGWC-19 | MGWC-20 | MGWC-21 | MGWC-22 | MGWC-23 | MGWC-24 | PZ-13 | PZ-14 | PZ-15 |
|-----------------------------|--|--------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
| a                           | Is the protective casing free from apparent damage?                  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| b                           | Is the casing free of degradation or deterioration?                  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| c                           | Does the casing have a functioning weep hole?                        | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| d                           | Is the annular space between casings filled with pea gravel or sand? | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| e                           | Is the well locked, and is the lock in good working condition?       | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| 3 - Surface Pad |   | MGWC-8 | MGWC-12 | MGWC-19 | MGWC-20 | MGWC-21 | MGWC-22 | MGWC-23 | MGWC-24 | PZ-13 | PZ-14 | PZ-15 |
|-----------------|---|--------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
| a               | Is the well pad in good condition? (Not cracked or broken)  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| b               | Does the well pad provide adequate surface seal and stability to the well?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| c               | Is the well pad in complete contact with the protective casing?   | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| d               | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| e               | Is the pad surface clean? (Not covered by soil or debris)   | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| 4 - Internal Well Casing |  | MGWC-8 | MGWC-12 | MGWC-19 | MGWC-20 | MGWC-21 | MGWC-22 | MGWC-23 | MGWC-24 | PZ-13 | PZ-14 | PZ-15 |
|--------------------------|--|--------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
| a                        | Does the well cap prevent entry of foreign material into the well?   | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| b                        | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| c                        | Does the well have a venting hole near the top of casing?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| d                        | Is the survey point clearly marked on the inner casing?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| e                        | Is the depth of the well consistent with the original well log?  | Yes    | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes   | Yes   | Yes   |
| f                        | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No     | No      | No      | No      | No      | No      | No      | No      | No    | No    | No    |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



**5 - Sampling (Groundwater Monitoring Wells Only):**

|   | <b>MGWC-8</b>  | <b>MGWC-12</b> | <b>MGWC-19</b> | <b>MGWC-20</b> | <b>MGWC-21</b> | <b>MGWC-22</b> | <b>MGWC-23</b> | <b>MGWC-24</b> | <b>PZ-13</b> | <b>PZ-14</b> | <b>PZ-15</b> |
|---|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|
| a | Does the well recharge adequately when purged?                                   | Yes            | Yes            | N/A            | N/A            | N/A            | N/A            | N/A            | N/A          | N/A          | N/A          |
| b | If dedicated sampling equipment is installed, is it in good condition?           | N/A            | N/A          | N/A          | N/A          |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | No             | No             | N/A            | N/A            | N/A            | N/A            | N/A            | N/A          | N/A          | N/A          |

Note: N/A - Not Applicable

**6 - Based on your professional judgment, is the well construction / location appropriate to:**

|  | <b>MGWC-8</b>   | <b>MGWC-12</b> | <b>MGWC-19</b> | <b>MGWC-20</b> | <b>MGWC-21</b> | <b>MGWC-22</b> | <b>MGWC-23</b> | <b>MGWC-24</b> | <b>PZ-13</b> | <b>PZ-14</b> | <b>PZ-15</b> |
|--|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|
|  | 1) achieve the objectives of the facility Groundwater Monitoring Program, and<br>2) comply with the applicable regulatory requirements? | Yes            | Yes          | Yes          | Yes          |

**7 - Corrective actions completed and Notes:**

Staff: A. Schnittker  
Date: 2/6/2023

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



| <u>1 - Location/Identification</u> |  | PZ-16 | PZ-17 | PZ-18 |
|------------------------------------|--|-------|-------|-------|
| a                                  | Is the well visible and accessible?  | Yes   | Yes   | Yes   |
| b                                  | Is the well properly identified with the correct well ID?  | Yes   | Yes   | Yes   |
| c                                  | Does the well require protection from traffic?   | No    | No    | No    |
| d                                  | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes   | Yes   | Yes   |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant McIntosh Ash Pond 1  
February 2023 Well Inspection Form

Permit No.: 051-011D(CCR)



| 2 - Protective Outer Casing |  | PZ-16 | PZ-17 | PZ-18 |
|-----------------------------|--|-------|-------|-------|
| a                           | Is the protective casing free from apparent damage?                  | Yes   | Yes   | Yes   |
| b                           | Is the casing free of degradation or deterioration?                  | Yes   | Yes   | Yes   |
| c                           | Does the casing have a functioning weep hole?                        | Yes   | Yes   | Yes   |
| d                           | Is the annular space between casings filled with pea gravel or sand? | Yes   | Yes   | Yes   |
| e                           | Is the well locked, and is the lock in good working condition?       | Yes   | Yes   | Yes   |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant McIntosh Ash Pond 1  
February 2023 Well Inspection Form

Permit No.: 051-011D(CCR)



| 3 - Surface Pad |   | PZ-16 | PZ-17 | PZ-18 |
|-----------------|---|-------|-------|-------|
| a               | Is the well pad in good condition? (Not cracked or broken)  | Yes   | Yes   | Yes   |
| b               | Does the well pad provide adequate surface seal and stability to the well?  | Yes   | Yes   | Yes   |
| c               | Is the well pad in complete contact with the protective casing?   | Yes   | Yes   | Yes   |
| d               | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes   | Yes   | Yes   |
| e               | Is the pad surface clean? (Not covered by soil or debris)   | Yes   | Yes   | Yes   |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant McIntosh Ash Pond 1  
February 2023 Well Inspection Form

Permit No.: 051-011D(CCR)



| 4 - Internal Well Casing |  | PZ-16 | PZ-17 | PZ-18 |
|--------------------------|--|-------|-------|-------|
| a                        | Does the well cap prevent entry of foreign material into the well?   | Yes   | Yes   | Yes   |
| b                        | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?  | Yes   | Yes   | Yes   |
| c                        | Does the well have a venting hole near the top of casing?  | Yes   | Yes   | Yes   |
| d                        | Is the survey point clearly marked on the inner casing?  | Yes   | Yes   | Yes   |
| e                        | Is the depth of the well consistent with the original well log?  | Yes   | Yes   | Yes   |
| f                        | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No    | No    | No    |

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Ash Pond 1**  
**February 2023 Well Inspection Form**

Permit No.: 051-011D(CCR)



**5 - Sampling (Groundwater Monitoring Wells Only):**

|   | <b>PZ-16</b>   | <b>PZ-17</b> | <b>PZ-18</b> |     |
|---|--|--------------|--------------|-----|
| a | Does the well recharge adequately when purged?                                   | N/A          | N/A          | N/A |
| b | If dedicated sampling equipment is installed, is it in good condition?           | N/A          | N/A          | N/A |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | N/A          | N/A          | N/A |

Note: N/A - Not Applicable

**6 - Based on your professional judgment, is the well construction / location appropriate to:**

|   | <b>PZ-16</b> | <b>PZ-17</b> | <b>PZ-18</b> |
|---|--------------|--------------|--------------|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and<br>2) comply with the applicable regulatory requirements? | Yes          | No           | Yes          |

**7 - Corrective actions completed and Notes:**

Staff: A. Schnittker  
Date: 2/6/2023

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

## APPENDIX A

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*Laboratory Analytical and Field Sampling Reports  
July 2023 Monitoring Event*

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Generated 8/17/2023 2:15:51 PM Revision 1

## JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

## JOB NUMBER

680-238497-1

# Eurofins Savannah

## Job Notes

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## Authorization



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

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8/17/2023 2:15:51 PM  
Revision 1

# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Qualifiers

### HPLC/IC

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F2        | MS/MSD RPD exceeds control limits   |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B         | Compound was found in the blank and sample.   |
| F2        | MS/MSD RPD exceeds control limits   |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  |

### General Chemistry

| Qualifier | Qualifier Description                   |
|-----------|---|
| F3        | Duplicate RPD exceeds the control limit |

## Glossary

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

# Sample Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 680-238497-1  | MCI-MGWA-10      | Water  | 08/01/23 10:54 | 08/02/23 13:55 |
| 680-238497-2  | MCI-MGWA-11      | Water  | 08/01/23 12:20 | 08/02/23 13:55 |
| 680-238497-3  | MCI-MGWA-5       | Water  | 08/01/23 13:20 | 08/02/23 13:55 |
| 680-238497-4  | MCI-MGWA-6       | Water  | 08/01/23 11:50 | 08/02/23 13:55 |
| 680-238497-5  | MCI-MGWA-6A      | Water  | 08/01/23 10:40 | 08/02/23 13:55 |
| 680-238497-6  | MCI-MGWC-1       | Water  | 08/01/23 14:04 | 08/02/23 13:55 |
| 680-238497-7  | MCI-MGWC-2       | Water  | 08/02/23 10:24 | 08/02/23 13:55 |
| 680-238497-8  | MCI-MGWC-3       | Water  | 08/01/23 14:43 | 08/02/23 13:55 |
| 680-238497-9  | MCI-MGWC-7       | Water  | 08/02/23 10:21 | 08/02/23 13:55 |
| 680-238497-10 | MCI-MGWC-8       | Water  | 08/01/23 15:44 | 08/02/23 13:55 |
| 680-238497-11 | MCI-MGWC-12      | Water  | 08/02/23 11:45 | 08/02/23 13:55 |
| 680-238497-12 | MCI-AP1-FD-01    | Water  | 08/01/23 00:00 | 08/02/23 13:55 |
| 680-238497-13 | MCI-AP1-FD-02    | Water  | 08/01/23 00:00 | 08/02/23 13:55 |
| 680-238497-14 | MCI-AP1-FB-01    | Water  | 08/02/23 10:45 | 08/02/23 13:55 |
| 680-238497-15 | MCI-AP1-FB-02    | Water  | 08/02/23 11:05 | 08/02/23 13:55 |
| 680-238497-16 | MCI-AP1-EB-03    | Water  | 08/01/23 13:10 | 08/02/23 13:55 |
| 680-238497-17 | MCI-AP1-EB-04    | Water  | 08/02/23 10:35 | 08/02/23 13:55 |

# Case Narrative

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Job ID: 680-238497-1

### Laboratory: Eurofins Savannah

#### Narrative

#### Job Narrative 680-238497-1

#### Revision 1

The report being provided is a revision of the original report sent on 8/9/2023. The report (revision 1) is being revised in order to report the reanalysis of three samples for metals by 6020B, MCI-AP1-FB-02 (680-238497-15), MCI-AP1-EB-03 (680-238497-16), MCI-AP1-EB-04 (680-238497-17) after a data quality review was requested. (Note: It was determined the -15 & -16 samples were cross-labeled during this review.)

#### Receipt

The samples were received on 8/2/2023 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.6°C, 0.9°C, 1.3°C and 2.1°C

#### HPLC/IC

Method 300\_ORGFM\_28D: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 680-791760 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-792069 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

#### Metals

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

#### General Chemistry

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: MCI-MGWA-11 (680-238497-2), MCI-MGWA-6 (680-238497-4), MCI-MGWA-6A (680-238497-5), MCI-MGWC-1 (680-238497-6), MCI-MGWC-2 (680-238497-7), MCI-MGWC-3 (680-238497-8), MCI-MGWC-7 (680-238497-9), MCI-MGWC-8 (680-238497-10), MCI-AP1-FD-01 (680-238497-12) and MCI-AP1-FD-02 (680-238497-13).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-791596 was outside control limits: (680-238329-H-2 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-791826 was outside control limits: (680-238497-C-5 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-792118 was outside control limits: (680-238497-C-7 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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

|    |  |
|----|--|
| 1  |  |
| 2  |  |
| 3  |  |
| 4  |  |
| 5  |  |
| 6  |  |
| 7  |  |
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| 9  |  |
| 10 |  |
| 11 |  |
| 12 |  |

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWA-10**  
Date Collected: 08/01/23 10:54  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-1**  
Matrix: Water

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 7.4    |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 10:58 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 10:58 | 1       |
| Sulfate  | 0.56 J |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 10:58 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Barium     | 0.021     |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Boron      | 0.035 J B |           | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:51 | 1       |
| Calcium    | 3.9       |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:51 | 1       |
| Chromium   | 0.0044    |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Lithium    | 0.0053    |           | 0.0050 | 0.0020   | mg/L |   |          | 08/03/23 05:51 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 08/03/23 05:51 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:32 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 57     |           | 10 | 10  | mg/L |   |          | 08/03/23 10:39 | 1       |

**Client Sample ID: MCI-MGWA-11**

**Lab Sample ID: 680-238497-2**

Date Collected: 08/01/23 12:20

Date Received: 08/02/23 13:55

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.3     |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 11:10 | 1       |
| Fluoride | 0.094 J |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 11:10 | 1       |
| Sulfate  | 1.0     |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 11:10 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Arsenic   | 0.0025    |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Barium    | 0.12      |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Boron     | 0.045 J B |           | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:51 | 1       |
| Calcium   | 39        |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:51 | 1       |
| Chromium  | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cobalt    | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:51 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWA-11**

**Lab Sample ID: 680-238497-2**

Matrix: Water

Date Collected: 08/01/23 12:20

Date Received: 08/02/23 13:55

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

| Analyte    | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lead       | <0.00021 |           | 0.0010 | 0.00021 | mg/L |   | 08/03/23 05:51 | 08/03/23 20:58 | 1       |
| Lithium    | 0.024    |           | 0.0050 | 0.0020  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:58 | 1       |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086 | mg/L |   | 08/03/23 05:51 | 08/03/23 20:58 | 1       |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099 | mg/L |   | 08/03/23 05:51 | 08/03/23 20:58 | 1       |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026 | mg/L |   | 08/03/23 05:51 | 08/03/23 20:58 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:34 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 300    |           | 40 | 40  | mg/L |   | 08/03/23 10:39 |          | 1       |

**Client Sample ID: MCI-MGWA-5**

**Lab Sample ID: 680-238497-3**

Matrix: Water

Date Collected: 08/01/23 13:20

Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result  | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|---------|-----------|------|-------|------|---|----------------|----------|---------|
| Chloride | 5.2     |           | 1.0  | 0.20  | mg/L |   | 08/04/23 11:23 |          | 1       |
| Fluoride | 0.094 J |           | 0.10 | 0.040 | mg/L |   | 08/04/23 11:23 |          | 1       |
| Sulfate  | 2.9     |           | 1.0  | 0.40  | mg/L |   | 08/04/23 11:23 |          | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Barium     | 0.037     |           | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Boron      | 0.037 J   |           | 0.080  | 0.022    | mg/L |   | 08/03/23 05:46 | 08/04/23 15:39 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Calcium    | 28        |           | 0.50   | 0.14     | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Lithium    | 0.0077    |           | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:27 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:35 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 170    |           | 10 | 10  | mg/L |   | 08/03/23 10:39 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWA-6**

**Lab Sample ID: 680-238497-4**

Matrix: Water

Date Collected: 08/01/23 11:50

Date Received: 08/02/23 13:55

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.3    |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 11:36 | 1       |
| Fluoride | 0.084  | J         | 0.10 | 0.040 | mg/L |   |          | 08/04/23 11:36 | 1       |
| Sulfate  | 3.2    |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 11:36 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Arsenic    | 0.010     |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Barium     | 0.029     |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Boron      | 0.057     | J         | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:46 | 1       |
| Calcium    | 110       |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:46 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   |          | 08/03/23 05:46 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 08/03/23 05:46 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   |          | 08/08/23 12:00 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 330    |           | 40 | 40  | mg/L |   |          | 08/03/23 10:39 | 1       |

**Client Sample ID: MCI-MGWA-6A**

**Lab Sample ID: 680-238497-5**

Matrix: Water

Date Collected: 08/01/23 10:40

Date Received: 08/02/23 13:55

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.4    |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 11:48 | 1       |
| Fluoride | 0.081  | J         | 0.10 | 0.040 | mg/L |   |          | 08/04/23 11:48 | 1       |
| Sulfate  | 4.0    |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 11:48 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Arsenic   | 0.0046    |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Barium    | 0.029     |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Boron     | 0.038     | J         | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:46 | 1       |
| Calcium   | 110       |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:46 | 1       |
| Chromium  | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cobalt    | 0.00045   | J         | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:46 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWA-6A**  
Date Collected: 08/01/23 10:40  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-5**  
Matrix: Water

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

| Analyte           | Result          | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------|-----------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lead              | <0.00021        |           | 0.0010 | 0.00021 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:18 | 1       |
| Lithium           | <0.0020         |           | 0.0050 | 0.0020  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:18 | 1       |
| <b>Molybdenum</b> | <b>0.0014 J</b> |           | 0.015  | 0.00086 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:18 | 1       |
| Selenium          | <0.00099        |           | 0.0050 | 0.00099 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:18 | 1       |
| Thallium          | <0.00026        |           | 0.0010 | 0.00026 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:18 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:41 | 1       |

## General Chemistry

| Analyte                                       | Result     | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|----|-----|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C-2011)</b> | <b>360</b> |           | 40 | 40  | mg/L |   |          | 08/04/23 11:57 | 1       |

**Client Sample ID: MCI-MGWC-1**

**Lab Sample ID: 680-238497-6**

Matrix: Water

Date Collected: 08/01/23 14:04

Date Received: 08/02/23 13:55

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte         | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>13</b>   |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 12:01 | 1       |
| <b>Fluoride</b> | <b>0.15</b> |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 12:01 | 1       |
| <b>Sulfate</b>  | <b>140</b>  |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 12:01 | 1       |

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

| Analyte           | Result          | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------|-----------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony          | <0.00034        |           | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| <b>Arsenic</b>    | <b>0.0012</b>   |           | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| <b>Barium</b>     | <b>0.10</b>     |           | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| Beryllium         | <0.00020        |           | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| <b>Boron</b>      | <b>1.6</b>      |           | 0.080  | 0.022    | mg/L |   | 08/03/23 05:46 | 08/04/23 15:14 | 1       |
| Cadmium           | <0.000078       |           | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| <b>Calcium</b>    | <b>110</b>      |           | 0.50   | 0.14     | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| Chromium          | <0.0012         |           | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| Cobalt            | <0.00022        |           | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| Lead              | <0.00021        |           | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| <b>Lithium</b>    | <b>0.0084</b>   |           | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| <b>Molybdenum</b> | <b>0.0012 J</b> |           | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| Selenium          | <0.00099        |           | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |
| Thallium          | <0.00026        |           | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:10 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:43 | 1       |

## General Chemistry

| Analyte                                       | Result     | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|----|-----|------|---|----------|----------------|---------|
| <b>Total Dissolved Solids (SM 2540C-2011)</b> | <b>450</b> |           | 40 | 40  | mg/L |   |          | 08/04/23 11:57 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-2**

**Lab Sample ID: 680-238497-7**

Matrix: Water

Date Collected: 08/02/23 10:24  
Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 12     |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 12:14 | 1       |
| Fluoride | 0.087  | J         | 0.10 | 0.040 | mg/L |   |          | 08/04/23 12:14 | 1       |
| Sulfate  | 150    |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 12:14 | 1       |

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

| Analyte    | Result   | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034 |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Arsenic    | <0.00086 |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Barium     | 0.040    |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Beryllium  | <0.00020 |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Boron      | 1.8      |           | 0.32   | 0.088    | mg/L |   |          | 08/03/23 05:46 | 15:43   |
| Cadmium    | 0.00032  | J         | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Calcium    | 100      |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Chromium   | <0.0012  |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Cobalt     | 0.0011   | J         | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Lead       | <0.00021 |           | 0.0010 | 0.00021  | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Lithium    | 0.0031   | J         | 0.0050 | 0.0020   | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099  | mg/L |   |          | 08/03/23 05:46 | 17:31   |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026  | mg/L |   |          | 08/03/23 05:46 | 17:31   |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:45 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 520    |           | 40 | 40  | mg/L |   |          | 08/07/23 12:07 | 1       |

**Client Sample ID: MCI-MGWC-3**

**Lab Sample ID: 680-238497-8**

Matrix: Water

Date Collected: 08/01/23 14:43

Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 12     |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 12:26 | 1       |
| Fluoride | 0.10   |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 12:26 | 1       |
| Sulfate  | 110    |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 12:26 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Arsenic   | 0.0017    |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Barium    | 0.16      |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Boron     | 0.65      | B         | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Calcium   | 120       |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Chromium  | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:51 | 21:19   |
| Cobalt    | 0.00054   | J         | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:51 | 21:19   |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-3**

**Lab Sample ID: 680-238497-8**

**Matrix: Water**

Date Collected: 08/01/23 14:43

Date Received: 08/02/23 13:55

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

| Analyte        | Result      | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lead           | <0.00021    |           | 0.0010 | 0.00021 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:19 | 1       |
| <b>Lithium</b> | <b>0.11</b> |           | 0.0050 | 0.0020  | mg/L |   | 08/03/23 05:51 | 08/03/23 21:19 | 1       |
| Molybdenum     | <0.00086    |           | 0.015  | 0.00086 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:19 | 1       |
| Selenium       | <0.00099    |           | 0.0050 | 0.00099 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:19 | 1       |
| Thallium       | <0.00026    |           | 0.0010 | 0.00026 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:19 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:46 | 1       |

**General Chemistry**

| Analyte                                | Result     | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <b>420</b> |           | 40 | 40  | mg/L |   |          | 08/04/23 11:57 | 1       |

**Client Sample ID: MCI-MGWC-7**

**Lab Sample ID: 680-238497-9**

**Matrix: Water**

Date Collected: 08/02/23 10:21

Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte         | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>11</b>   |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 13:04 | 1       |
| <b>Fluoride</b> | <b>0.20</b> |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 13:04 | 1       |
| <b>Sulfate</b>  | <b>200</b>  |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 13:04 | 1       |

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

| Analyte        | Result           | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|------------------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony       | <0.00034         |           | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Arsenic        | <0.00086         |           | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| <b>Barium</b>  | <b>0.015</b>     |           | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Beryllium      | <0.00020         |           | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| <b>Boron</b>   | <b>2.2</b>       |           | 0.32   | 0.088    | mg/L |   | 08/03/23 05:46 | 08/04/23 15:34 | 4       |
| <b>Cadmium</b> | <b>0.00031 J</b> |           | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| <b>Calcium</b> | <b>57</b>        |           | 0.50   | 0.14     | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Chromium       | <0.0012          |           | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| <b>Cobalt</b>  | <b>0.0031</b>    |           | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Lead           | <0.00021         |           | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| <b>Lithium</b> | <b>0.13</b>      |           | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Molybdenum     | <0.00086         |           | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Selenium       | <0.00099         |           | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |
| Thallium       | <0.00026         |           | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:22 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:48 | 1       |

**General Chemistry**

| Analyte                                | Result     | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|------------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <b>410</b> |           | 40 | 40  | mg/L |   |          | 08/07/23 12:07 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-8**  
Date Collected: 08/01/23 15:44  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-10**  
Matrix: Water

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 13     |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 13:42 | 1       |
| Fluoride | 0.11   |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 13:42 | 1       |
| Sulfate  | 280    |           | 5.0  | 2.0   | mg/L |   |          | 08/07/23 12:51 | 5       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Arsenic    | 0.00098 J |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Barium     | 0.056     |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Beryllium  | 0.00025 J |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Boron      | 4.3 B     |           | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cadmium    | 0.0020 J  |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:51 | 1       |
| Calcium    | 120       |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:51 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cobalt     | 0.0015 J  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Lithium    | 0.012     |           | 0.0050 | 0.0020   | mg/L |   |          | 08/03/23 05:51 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 08/03/23 05:51 | 1       |

## Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.00014 J |           | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:49 | 1       |

## General Chemistry

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 570    |           | 40 | 40  | mg/L |   |          | 08/04/23 11:57 | 1       |

**Client Sample ID: MCI-MGWC-12**

**Lab Sample ID: 680-238497-11**

Date Collected: 08/02/23 11:45  
Date Received: 08/02/23 13:55

## Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 4.5    |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 13:55 | 1       |
| Fluoride | 0.25   |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 13:55 | 1       |
| Sulfate  | 4.6    |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 13:55 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Arsenic   | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Barium    | 0.055     |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:51 | 1       |
| Boron     | 0.062 J B |           | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:51 | 1       |
| Calcium   | 31        |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:51 | 1       |
| Chromium  | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:51 | 1       |
| Cobalt    | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:51 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-12**

**Lab Sample ID: 680-238497-11**

**Matrix: Water**

Date Collected: 08/02/23 11:45

Date Received: 08/02/23 13:55

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

| Analyte    | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lead       | <0.00021 |           | 0.0010 | 0.00021 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:23 | 1       |
| Lithium    | 0.019    |           | 0.0050 | 0.0020  | mg/L |   | 08/03/23 05:51 | 08/03/23 21:23 | 1       |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:23 | 1       |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:23 | 1       |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026 | mg/L |   | 08/03/23 05:51 | 08/03/23 21:23 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:51 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 200    |           | 10 | 10  | mg/L |   |          | 08/07/23 12:07 | 1       |

**Client Sample ID: MCI-AP1-FD-01**

**Lab Sample ID: 680-238497-12**

**Matrix: Water**

Date Collected: 08/01/23 00:00

Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 13     |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 14:08 | 1       |
| Fluoride | 0.11   |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 14:08 | 1       |
| Sulfate  | 280    |           | 5.0  | 2.0   | mg/L |   |          | 08/07/23 13:03 | 5       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Arsenic    | 0.00095 J |           | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Barium     | 0.051     |           | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Beryllium  | 0.00023 J |           | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Boron      | 3.8       |           | 0.080  | 0.022    | mg/L |   | 08/03/23 05:46 | 08/04/23 15:47 | 1       |
| Cadmium    | 0.0014 J  |           | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Calcium    | 110       |           | 0.50   | 0.14     | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Cobalt     | 0.0014 J  |           | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Lithium    | 0.0095    |           | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:35 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.00012 J |           | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:52 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 570    |           | 40 | 40  | mg/L |   |          | 08/04/23 11:57 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-AP1-FD-02**

**Lab Sample ID: 680-238497-13**

Matrix: Water

Date Collected: 08/01/23 00:00  
Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 12     |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 14:20 | 1       |
| Fluoride | 0.10   |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 14:20 | 1       |
| Sulfate  | 110    |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 14:20 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Arsenic    | 0.0017    |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Barium     | 0.16      |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Boron      | 0.59      |           | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:46 | 1       |
| Calcium    | 120       |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:46 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cobalt     | 0.00049 J |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Lithium    | 0.011     |           | 0.0050 | 0.0020   | mg/L |   |          | 08/03/23 05:46 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   |          | 08/03/23 05:46 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:54 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | 410    |           | 40 | 40  | mg/L |   |          | 08/04/23 11:57 | 1       |

**Client Sample ID: MCI-AP1-FB-01**

**Lab Sample ID: 680-238497-14**

Matrix: Water

Date Collected: 08/02/23 10:45  
Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 14:33 | 1       |
| Fluoride | 0.59   |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 14:33 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 14:33 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Arsenic   | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Barium    | 0.00092 J |           | 0.010  | 0.00089  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/03/23 05:46 | 1       |
| Boron     | 0.033 J   |           | 0.080  | 0.022    | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/03/23 05:46 | 1       |
| Calcium   | <0.14     |           | 0.50   | 0.14     | mg/L |   |          | 08/03/23 05:46 | 1       |
| Chromium  | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/03/23 05:46 | 1       |
| Cobalt    | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/03/23 05:46 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-AP1-FB-01**

**Lab Sample ID: 680-238497-14**

Matrix: Water

Date Collected: 08/02/23 10:45  
Date Received: 08/02/23 13:55

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

| Analyte    | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lead       | <0.00021 |           | 0.0010 | 0.00021 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:14 | 1       |
| Lithium    | <0.0020  |           | 0.0050 | 0.0020  | mg/L |   | 08/03/23 05:46 | 08/03/23 17:14 | 1       |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:14 | 1       |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:14 | 1       |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026 | mg/L |   | 08/03/23 05:46 | 08/03/23 17:14 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:55 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   |          | 08/07/23 12:07 | 1       |

**Client Sample ID: MCI-AP1-FB-02**

**Lab Sample ID: 680-238497-15**

Matrix: Water

Date Collected: 08/02/23 11:05  
Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte         | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride        | <0.20       |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 14:46 | 1       |
| <b>Fluoride</b> | <b>0.61</b> |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 14:46 | 1       |
| Sulfate         | <0.40       |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 14:46 | 1       |

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

| Analyte    | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|-----------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Arsenic    | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Barium     | <0.00089  |           | 0.010  | 0.00089  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Beryllium  | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Boron      | <0.022    |           | 0.080  | 0.022    | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Cadmium    | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Calcium    | <0.14     |           | 0.50   | 0.14     | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Chromium   | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Cobalt     | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Lead       | <0.00021  |           | 0.0010 | 0.00021  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Lithium    | <0.0020   |           | 0.0050 | 0.0020   | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Molybdenum | <0.00086  |           | 0.015  | 0.00086  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Selenium   | <0.00099  |           | 0.0050 | 0.00099  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |
| Thallium   | <0.00026  |           | 0.0010 | 0.00026  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:41 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 11:00 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   |          | 08/07/23 12:07 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-AP1-EB-03**

**Lab Sample ID: 680-238497-16**

**Matrix: Water**

Date Collected: 08/01/23 13:10  
Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte         | Result      | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride        | <0.20       |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 14:58 | 1       |
| <b>Fluoride</b> | <b>0.67</b> |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 14:58 | 1       |
| Sulfate         | <0.40       |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 14:58 | 1       |

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

| Analyte         | Result          | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-----------------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony        | <0.00034        |           | 0.0020 | 0.00034  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Arsenic         | <0.00086        |           | 0.0010 | 0.00086  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Barium          | <0.00089        |           | 0.010  | 0.00089  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Beryllium       | <0.00020        |           | 0.0025 | 0.00020  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Boron           | <0.022          |           | 0.080  | 0.022    | mg/L |   |          | 08/16/23 05:44 | 1       |
| Cadmium         | <0.000078       |           | 0.0025 | 0.000078 | mg/L |   |          | 08/16/23 05:44 | 1       |
| Calcium         | <0.14           |           | 0.50   | 0.14     | mg/L |   |          | 08/16/23 05:44 | 1       |
| <b>Chromium</b> | <b>0.0012 J</b> |           | 0.0020 | 0.0012   | mg/L |   |          | 08/16/23 05:44 | 1       |
| Cobalt          | <0.00022        |           | 0.0025 | 0.00022  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Lead            | <0.00021        |           | 0.0010 | 0.00021  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Lithium         | <0.0020         |           | 0.0050 | 0.0020   | mg/L |   |          | 08/16/23 05:44 | 1       |
| Molybdenum      | <0.00086        |           | 0.015  | 0.00086  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Selenium        | <0.00099        |           | 0.0050 | 0.00099  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Thallium        | <0.00026        |           | 0.0010 | 0.00026  | mg/L |   |          | 08/16/23 05:44 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 11:02 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   |          | 08/04/23 11:57 | 1       |

**Client Sample ID: MCI-AP1-EB-04**

**Lab Sample ID: 680-238497-17**

**Matrix: Water**

Date Collected: 08/02/23 10:35  
Date Received: 08/02/23 13:55

**Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography**

| Analyte         | Result         | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------|----------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride        | <0.20          |           | 1.0  | 0.20  | mg/L |   |          | 08/04/23 15:11 | 1       |
| <b>Fluoride</b> | <b>0.057 J</b> |           | 0.10 | 0.040 | mg/L |   |          | 08/04/23 15:11 | 1       |
| Sulfate         | <0.40          |           | 1.0  | 0.40  | mg/L |   |          | 08/04/23 15:11 | 1       |

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

| Analyte   | Result    | Qualifier | RL     | MDL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|-----------|-----------|--------|----------|------|---|----------|----------------|---------|
| Antimony  | <0.00034  |           | 0.0020 | 0.00034  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Arsenic   | <0.00086  |           | 0.0010 | 0.00086  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Barium    | <0.00089  |           | 0.010  | 0.00089  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Beryllium | <0.00020  |           | 0.0025 | 0.00020  | mg/L |   |          | 08/16/23 05:44 | 1       |
| Boron     | <0.022    |           | 0.080  | 0.022    | mg/L |   |          | 08/16/23 05:44 | 1       |
| Cadmium   | <0.000078 |           | 0.0025 | 0.000078 | mg/L |   |          | 08/16/23 05:44 | 1       |
| Calcium   | <0.14     |           | 0.50   | 0.14     | mg/L |   |          | 08/16/23 05:44 | 1       |
| Chromium  | <0.0012   |           | 0.0020 | 0.0012   | mg/L |   |          | 08/16/23 05:44 | 1       |
| Cobalt    | <0.00022  |           | 0.0025 | 0.00022  | mg/L |   |          | 08/16/23 05:44 | 1       |

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# Client Sample Results

Client: Southern Company

Job ID: 680-238497-1

Project/Site: Plant McIntosh - Ash Pond 1

**Client Sample ID: MCI-AP1-EB-04****Lab Sample ID: 680-238497-17**

Date Collected: 08/02/23 10:35

Matrix: Water

Date Received: 08/02/23 13:55

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

| Analyte    | Result   | Qualifier | RL     | MDL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Lead       | <0.00021 |           | 0.0010 | 0.00021 | mg/L |   | 08/16/23 05:44 | 08/16/23 16:57 | 1       |
| Lithium    | <0.0020  |           | 0.0050 | 0.0020  | mg/L |   | 08/16/23 05:44 | 08/16/23 16:57 | 1       |
| Molybdenum | <0.00086 |           | 0.015  | 0.00086 | mg/L |   | 08/16/23 05:44 | 08/16/23 16:57 | 1       |
| Selenium   | <0.00099 |           | 0.0050 | 0.00099 | mg/L |   | 08/16/23 05:44 | 08/16/23 16:57 | 1       |
| Thallium   | <0.00026 |           | 0.0010 | 0.00026 | mg/L |   | 08/16/23 05:44 | 08/16/23 16:57 | 1       |

**Method: SW846 7470A - Mercury (CVAA)**

| Analyte | Result    | Qualifier | RL       | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080 |           | 0.000020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 11:03 | 1       |

**General Chemistry**

| Analyte                                | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|--|--------|-----------|----|-----|------|---|----------------|----------|---------|
| Total Dissolved Solids (SM 2540C-2011) | <10    |           | 10 | 10  | mg/L |   | 08/07/23 12:07 |          | 1       |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

**Lab Sample ID:** MB 680-791760/2

**Matrix:** Water

**Analysis Batch:** 791760

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

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.20        |                 | 1.0  | 0.20  | mg/L |   |          | 08/04/23 09:09 | 1       |
| Fluoride | <0.040       |                 | 0.10 | 0.040 | mg/L |   |          | 08/04/23 09:09 | 1       |
| Sulfate  | <0.40        |                 | 1.0  | 0.40  | mg/L |   |          | 08/04/23 09:09 | 1       |

**Lab Sample ID:** LCS 680-791760/4

**Matrix:** Water

**Analysis Batch:** 791760

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

| Analyte  |  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |  |
|----------|--|----------------|---------------|------------------|------|---|------|----------------|--|
| Chloride |  | 10.0           | 9.97          |                  | mg/L |   | 100  | 90 - 110       |  |
| Fluoride |  | 2.00           | 2.15          |                  | mg/L |   | 108  | 90 - 110       |  |
| Sulfate  |  | 10.0           | 10.2          |                  | mg/L |   | 102  | 90 - 110       |  |

**Lab Sample ID:** LCSD 680-791760/5

**Matrix:** Water

**Analysis Batch:** 791760

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

| Analyte  |  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|--|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| Chloride |  | 10.0           | 9.97           |                   | mg/L |   | 100  | 90 - 110       | 0   | 15           |
| Fluoride |  | 2.00           | 2.15           |                   | mg/L |   | 107  | 90 - 110       | 0   | 15           |
| Sulfate  |  | 10.0           | 10.2           |                   | mg/L |   | 102  | 90 - 110       | 0   | 15           |

**Lab Sample ID:** 680-238494-E-6 MS

**Matrix:** Water

**Analysis Batch:** 791760

**Client Sample ID:** Matrix Spike  
**Prep Type:** Total/NA

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|--|
| Chloride | 3.2              |                     | 10.0           | 13.0         |                 | mg/L |   | 98   | 80 - 120       |  |
| Fluoride | 0.063            | J                   | 2.00           | 2.07         |                 | mg/L |   | 101  | 80 - 120       |  |
| Sulfate  | 13               |                     | 10.0           | 22.8         |                 | mg/L |   | 97   | 80 - 120       |  |

**Lab Sample ID:** 680-238494-E-6 MSD

**Matrix:** Water

**Analysis Batch:** 791760

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

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Chloride | 3.2              |                     | 10.0           | 13.2          |                  | mg/L |   | 100  | 80 - 120       | 2   | 15           |
| Fluoride | 0.063            | J                   | 2.00           | 2.12          |                  | mg/L |   | 103  | 80 - 120       | 2   | 15           |
| Sulfate  | 13               |                     | 10.0           | 23.0          |                  | mg/L |   | 99   | 80 - 120       | 1   | 15           |

**Lab Sample ID:** 680-238497-9 MS

**Matrix:** Water

**Analysis Batch:** 791760

**Client Sample ID:** MCI-MGWC-7  
**Prep Type:** Total/NA

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|--|
| Chloride | 11               |                     | 10.0           | 20.6         |                 | mg/L |   | 100  | 80 - 120       |  |
| Fluoride | 0.20             |                     | 2.00           | 2.27         |                 | mg/L |   | 103  | 80 - 120       |  |
| Sulfate  | 200              |                     | 10.0           | 210          | 4               | mg/L |   | 76   | 80 - 120       |  |

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# QC Sample Results

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 680-238497-9 MSD**

**Matrix: Water**

**Analysis Batch: 791760**

**Client Sample ID: MCI-MGWC-7**

**Prep Type: Total/NA**

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     |     |
| Chloride | 11     |           | 10.0  | 20.9   |           | mg/L |   | 102  | 80 - 120 | 1   | 15  |
| Fluoride | 0.20   |           | 2.00  | 2.32   |           | mg/L |   | 106  | 80 - 120 | 2   | 15  |
| Sulfate  | 200    |           | 10.0  | 210    | 4         | mg/L |   | 81   | 80 - 120 | 0   | 15  |

**Lab Sample ID: MB 680-792069/2**

**Matrix: Water**

**Analysis Batch: 792069**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte  | MB     | MB        | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
|          | Result | Qualifier |      |       |      |   |          |                |         |
| Chloride | <0.20  |           | 1.0  | 0.20  | mg/L |   |          | 08/07/23 10:00 | 1       |
| Fluoride | <0.040 |           | 0.10 | 0.040 | mg/L |   |          | 08/07/23 10:00 | 1       |
| Sulfate  | <0.40  |           | 1.0  | 0.40  | mg/L |   |          | 08/07/23 10:00 | 1       |

**Lab Sample ID: LCS 680-792069/4**

**Matrix: Water**

**Analysis Batch: 792069**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte  | Spike | LC     | LC        | Unit | D | %Rec | %Rec     | RPD | RPD |
|----------|-------|--------|-----------|------|---|------|----------|-----|-----|
|          |       | Result | Qualifier |      |   |      | Limits   |     |     |
| Chloride | 10.0  | 9.96   |           | mg/L |   | 100  | 90 - 110 |     |     |
| Fluoride | 2.00  | 2.12   |           | mg/L |   | 106  | 90 - 110 |     |     |
| Sulfate  | 10.0  | 10.2   |           | mg/L |   | 102  | 90 - 110 |     |     |

**Lab Sample ID: LCSD 680-792069/5**

**Matrix: Water**

**Analysis Batch: 792069**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

| Analyte  | Spk   | LCSD   | LCSD      | Unit | D | %Rec | %Rec     | RPD | RPD |
|----------|-------|--------|-----------|------|---|------|----------|-----|-----|
|          | Added | Result | Qualifier |      |   |      | Limits   |     |     |
| Chloride | 10.0  | 9.96   |           | mg/L |   | 100  | 90 - 110 | 0   | 15  |
| Fluoride | 2.00  | 2.13   |           | mg/L |   | 106  | 90 - 110 | 0   | 15  |
| Sulfate  | 10.0  | 10.2   |           | mg/L |   | 102  | 90 - 110 | 0   | 15  |

**Lab Sample ID: 680-238271-F-2 MS**

**Matrix: Water**

**Analysis Batch: 792069**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec     | RPD | RPD |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     |     |
| Fluoride | 0.044  | J F2      | 2.00  | 1.75   |           | mg/L |   | 85   | 80 - 120 |     |     |
| Sulfate  | 48     |           | 10.0  | 56.2   | 4         | mg/L |   | 81   | 80 - 120 |     |     |

**Lab Sample ID: 680-238271-F-2 MSD**

**Matrix: Water**

**Analysis Batch: 792069**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

| Analyte  | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     |     |
| Fluoride | 0.044  | J F2      | 2.00  | 2.07   | F2        | mg/L |   | 101  | 80 - 120 | 17  | 15  |
| Sulfate  | 48     |           | 10.0  | 57.6   | 4         | mg/L |   | 96   | 80 - 120 | 3   | 15  |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

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

**Lab Sample ID: MB 680-791512/1-A**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte    | MB<br>Result | MB<br>Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034     |                 | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Arsenic    | <0.00086     |                 | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Barium     | <0.00089     |                 | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Beryllium  | <0.00020     |                 | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Cadmium    | <0.000078    |                 | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Calcium    | <0.14        |                 | 0.50   | 0.14     | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Chromium   | <0.0012      |                 | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Cobalt     | <0.00022     |                 | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Lead       | <0.00021     |                 | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Lithium    | <0.0020      |                 | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Molybdenum | <0.00086     |                 | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Selenium   | <0.00099     |                 | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |
| Thallium   | <0.00026     |                 | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:46 | 08/03/23 16:09 | 1       |

**Lab Sample ID: MB 680-791512/1-A**

**Matrix: Water**

**Analysis Batch: 791932**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte    | MB<br>Result | MB<br>Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|--------------|-----------------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034     |                 | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Arsenic    | <0.00086     |                 | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Barium     | 0.00102      | J               | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Beryllium  | <0.00020     |                 | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Boron      | <0.022       |                 | 0.080  | 0.022    | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Cadmium    | <0.000078    |                 | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Calcium    | <0.14        |                 | 0.50   | 0.14     | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Chromium   | <0.0012      |                 | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Cobalt     | <0.00022     |                 | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Lead       | <0.00021     |                 | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Lithium    | <0.0020      |                 | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Molybdenum | <0.00086     |                 | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Selenium   | <0.00099     |                 | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |
| Thallium   | <0.00026     |                 | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:46 | 08/04/23 14:45 | 1       |

**Lab Sample ID: LCS 680-791512/2-A**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte   | Spike<br>Added | LCS    |           |      | Unit | D | %Rec     |  |
|-----------|----------------|--------|-----------|------|------|---|----------|--|
|           |                | Result | Qualifier | %Rec |      |   | Limits   |  |
| Antimony  | 0.0500         | 0.0504 |           | 101  | mg/L |   | 80 - 120 |  |
| Arsenic   | 0.100          | 0.105  |           | 105  | mg/L |   | 80 - 120 |  |
| Barium    | 0.100          | 0.0970 |           | 97   | mg/L |   | 80 - 120 |  |
| Beryllium | 0.0500         | 0.0534 |           | 107  | mg/L |   | 80 - 120 |  |
| Cadmium   | 0.0500         | 0.0488 |           | 98   | mg/L |   | 80 - 120 |  |
| Calcium   | 5.00           | 5.36   |           | 107  | mg/L |   | 80 - 120 |  |
| Chromium  | 0.100          | 0.0964 |           | 96   | mg/L |   | 80 - 120 |  |
| Cobalt    | 0.0500         | 0.0537 |           | 107  | mg/L |   | 80 - 120 |  |
| Lead      | 0.500          | 0.517  |           | 103  | mg/L |   | 80 - 120 |  |
| Lithium   | 0.500          | 0.518  |           | 104  | mg/L |   | 80 - 120 |  |

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# QC Sample Results

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

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

**Lab Sample ID: LCS 680-791512/2-A**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D   | %Rec     | Limits |
|------------|-------------|------------|---------------|------|-----|----------|--------|
| Molybdenum | 0.100       | 0.106      |               | mg/L | 106 | 80 - 120 |        |
| Selenium   | 0.100       | 0.108      |               | mg/L | 108 | 80 - 120 |        |
| Thallium   | 0.0500      | 0.0488     |               | mg/L | 98  | 80 - 120 |        |

**Lab Sample ID: LCS 680-791512/2-A**

**Matrix: Water**

**Analysis Batch: 791932**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D   | %Rec     | Limits |
|------------|-------------|------------|---------------|------|-----|----------|--------|
| Antimony   | 0.0500      | 0.0485     |               | mg/L | 97  | 80 - 120 |        |
| Arsenic    | 0.100       | 0.100      |               | mg/L | 100 | 80 - 120 |        |
| Barium     | 0.100       | 0.0987     |               | mg/L | 99  | 80 - 120 |        |
| Beryllium  | 0.0500      | 0.0491     |               | mg/L | 98  | 80 - 120 |        |
| Boron      | 0.200       | 0.198      |               | mg/L | 99  | 80 - 120 |        |
| Cadmium    | 0.0500      | 0.0481     |               | mg/L | 96  | 80 - 120 |        |
| Calcium    | 5.00        | 5.21       |               | mg/L | 104 | 80 - 120 |        |
| Chromium   | 0.100       | 0.102      |               | mg/L | 102 | 80 - 120 |        |
| Cobalt     | 0.0500      | 0.0517     |               | mg/L | 103 | 80 - 120 |        |
| Lead       | 0.500       | 0.516      |               | mg/L | 103 | 80 - 120 |        |
| Lithium    | 0.500       | 0.488      |               | mg/L | 98  | 80 - 120 |        |
| Molybdenum | 0.100       | 0.102      |               | mg/L | 102 | 80 - 120 |        |
| Selenium   | 0.100       | 0.102      |               | mg/L | 102 | 80 - 120 |        |
| Thallium   | 0.0500      | 0.0472     |               | mg/L | 94  | 80 - 120 |        |

**Lab Sample ID: 680-238484-A-1-B MS**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Matrix Spike**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte    | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D   | %Rec     | Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|-----|----------|--------|
| Antimony   | <0.00034      |                  | 0.0500      | 0.0507    |              | mg/L | 101 | 75 - 125 |        |
| Arsenic    | 0.0022        |                  | 0.100       | 0.107     |              | mg/L | 105 | 75 - 125 |        |
| Barium     | 0.013         |                  | 0.100       | 0.110     |              | mg/L | 98  | 75 - 125 |        |
| Beryllium  | <0.00020      |                  | 0.0500      | 0.0538    |              | mg/L | 108 | 75 - 125 |        |
| Cadmium    | <0.000078     |                  | 0.0500      | 0.0497    |              | mg/L | 99  | 75 - 125 |        |
| Calcium    | 14            |                  | 5.00        | 18.3      |              | mg/L | 84  | 75 - 125 |        |
| Chromium   | 0.0015 J      |                  | 0.100       | 0.0974    |              | mg/L | 96  | 75 - 125 |        |
| Cobalt     | 0.00069 J     |                  | 0.0500      | 0.0556    |              | mg/L | 110 | 75 - 125 |        |
| Lead       | 0.00029 J     |                  | 0.500       | 0.516     |              | mg/L | 103 | 75 - 125 |        |
| Lithium    | <0.0020       |                  | 0.500       | 0.524     |              | mg/L | 105 | 75 - 125 |        |
| Molybdenum | 0.0031 J      |                  | 0.100       | 0.110     |              | mg/L | 107 | 75 - 125 |        |
| Selenium   | 0.0011 J      |                  | 0.100       | 0.109     |              | mg/L | 108 | 75 - 125 |        |
| Thallium   | <0.00026      |                  | 0.0500      | 0.0496    |              | mg/L | 99  | 75 - 125 |        |

**Lab Sample ID: 680-238484-A-1-B MS**

**Matrix: Water**

**Analysis Batch: 791932**

**Client Sample ID: Matrix Spike**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D  | %Rec     | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|----|----------|--------|
| Boron   | 0.047         | J                | 0.200       | 0.233     |              | mg/L | 93 | 75 - 125 |        |

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# QC Sample Results

Client: Southern Company

Job ID: 680-238497-1

Project/Site: Plant McIntosh - Ash Pond 1

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

**Lab Sample ID: 680-238484-A-1-C MSD**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte    | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits   | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-----------|
| Antimony   | <0.00034      |                  | 0.0500      | 0.0504     |               | mg/L |   | 101  | 75 - 125 | 1   | 20        |
| Arsenic    | 0.0022        |                  | 0.100       | 0.107      |               | mg/L |   | 105  | 75 - 125 | 0   | 20        |
| Barium     | 0.013         |                  | 0.100       | 0.112      |               | mg/L |   | 100  | 75 - 125 | 2   | 20        |
| Beryllium  | <0.00020      |                  | 0.0500      | 0.0536     |               | mg/L |   | 107  | 75 - 125 | 0   | 20        |
| Cadmium    | <0.000078     |                  | 0.0500      | 0.0508     |               | mg/L |   | 102  | 75 - 125 | 2   | 20        |
| Calcium    | 14            |                  | 5.00        | 18.0       |               | mg/L |   | 78   | 75 - 125 | 2   | 20        |
| Chromium   | 0.0015 J      |                  | 0.100       | 0.100      |               | mg/L |   | 99   | 75 - 125 | 3   | 20        |
| Cobalt     | 0.00069 J     |                  | 0.0500      | 0.0552     |               | mg/L |   | 109  | 75 - 125 | 1   | 20        |
| Lead       | 0.00029 J     |                  | 0.500       | 0.529      |               | mg/L |   | 106  | 75 - 125 | 2   | 20        |
| Lithium    | <0.0020       |                  | 0.500       | 0.526      |               | mg/L |   | 105  | 75 - 125 | 0   | 20        |
| Molybdenum | 0.0031 J      |                  | 0.100       | 0.110      |               | mg/L |   | 107  | 75 - 125 | 0   | 20        |
| Selenium   | 0.0011 J      |                  | 0.100       | 0.108      |               | mg/L |   | 107  | 75 - 125 | 1   | 20        |
| Thallium   | <0.00026      |                  | 0.0500      | 0.0507     |               | mg/L |   | 101  | 75 - 125 | 2   | 20        |

**Lab Sample ID: 680-238484-A-1-C MSD**

**Matrix: Water**

**Analysis Batch: 791932**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 791512**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits   | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-----------|
| Boron   | 0.047 J       |                  | 0.200       | 0.240      |               | mg/L |   | 97   | 75 - 125 | 3   | 20        |

**Lab Sample ID: MB 680-791513/1-A**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 791513**

| Analyte    | MB Result | MB Qualifier | RL     | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------|-----------|--------------|--------|----------|------|---|----------------|----------------|---------|
| Antimony   | <0.00034  |              | 0.0020 | 0.00034  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Arsenic    | <0.00086  |              | 0.0010 | 0.00086  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Barium     | <0.00089  |              | 0.010  | 0.00089  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Beryllium  | <0.00020  |              | 0.0025 | 0.00020  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Boron      | 0.0391 J  |              | 0.080  | 0.022    | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Cadmium    | <0.000078 |              | 0.0025 | 0.000078 | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Calcium    | <0.14     |              | 0.50   | 0.14     | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Chromium   | <0.0012   |              | 0.0020 | 0.0012   | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Cobalt     | <0.00022  |              | 0.0025 | 0.00022  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Lead       | <0.00021  |              | 0.0010 | 0.00021  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Lithium    | <0.0020   |              | 0.0050 | 0.0020   | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Molybdenum | <0.00086  |              | 0.015  | 0.00086  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Selenium   | <0.00099  |              | 0.0050 | 0.00099  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |
| Thallium   | <0.00026  |              | 0.0010 | 0.00026  | mg/L |   | 08/03/23 05:51 | 08/03/23 20:22 | 1       |

**Lab Sample ID: LCS 680-791513/2-A**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 791513**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|----------|-------------|------------|---------------|------|---|------|----------|
| Antimony | 0.0500      | 0.0531     |               | mg/L |   | 106  | 80 - 120 |
| Arsenic  | 0.100       | 0.110      |               | mg/L |   | 110  | 80 - 120 |
| Barium   | 0.100       | 0.103      |               | mg/L |   | 103  | 80 - 120 |

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# QC Sample Results

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

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

**Lab Sample ID: LCS 680-791513/2-A**

**Matrix: Water**

**Analysis Batch: 791787**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 791513**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D   | %Rec     | Limits |
|------------|-------------|------------|---------------|------|-----|----------|--------|
| Beryllium  | 0.0500      | 0.0523     |               | mg/L | 105 | 80 - 120 |        |
| Boron      | 0.200       | 0.235      |               | mg/L | 118 | 80 - 120 |        |
| Cadmium    | 0.0500      | 0.0517     |               | mg/L | 103 | 80 - 120 |        |
| Calcium    | 5.00        | 5.30       |               | mg/L | 106 | 80 - 120 |        |
| Chromium   | 0.100       | 0.105      |               | mg/L | 105 | 80 - 120 |        |
| Cobalt     | 0.0500      | 0.0560     |               | mg/L | 112 | 80 - 120 |        |
| Lead       | 0.500       | 0.542      |               | mg/L | 108 | 80 - 120 |        |
| Lithium    | 0.500       | 0.515      |               | mg/L | 103 | 80 - 120 |        |
| Molybdenum | 0.100       | 0.111      |               | mg/L | 111 | 80 - 120 |        |
| Selenium   | 0.100       | 0.110      |               | mg/L | 110 | 80 - 120 |        |
| Thallium   | 0.0500      | 0.0508     |               | mg/L | 102 | 80 - 120 |        |

**Lab Sample ID: MB 680-793587/1-A**

**Matrix: Water**

**Analysis Batch: 793796**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 793587**

| Analyte    | MB Result | MB Qualifier | RL     | MDL      | Unit | D              | Prepared       | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|----------|------|----------------|----------------|----------|---------|
| Antimony   | <0.00034  |              | 0.0020 | 0.00034  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Arsenic    | <0.00086  |              | 0.0010 | 0.00086  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Barium     | <0.00089  |              | 0.010  | 0.00089  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Beryllium  | <0.00020  |              | 0.0025 | 0.00020  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Boron      | <0.022    |              | 0.080  | 0.022    | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Cadmium    | <0.000078 |              | 0.0025 | 0.000078 | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Calcium    | <0.14     |              | 0.50   | 0.14     | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Chromium   | <0.0012   |              | 0.0020 | 0.0012   | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Cobalt     | <0.00022  |              | 0.0025 | 0.00022  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Lead       | <0.00021  |              | 0.0010 | 0.00021  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Lithium    | <0.0020   |              | 0.0050 | 0.0020   | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Molybdenum | <0.00086  |              | 0.015  | 0.00086  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Selenium   | <0.00099  |              | 0.0050 | 0.00099  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |
| Thallium   | <0.00026  |              | 0.0010 | 0.00026  | mg/L | 08/16/23 05:44 | 08/16/23 16:08 |          | 1       |

**Lab Sample ID: LCS 680-793587/2-A**

**Matrix: Water**

**Analysis Batch: 793796**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 793587**

| Analyte    | Spike Added | LCS Result | LCS Qualifier | Unit | D   | %Rec     | Limits |
|------------|-------------|------------|---------------|------|-----|----------|--------|
| Antimony   | 0.0500      | 0.0519     |               | mg/L | 104 | 80 - 120 |        |
| Arsenic    | 0.100       | 0.104      |               | mg/L | 104 | 80 - 120 |        |
| Barium     | 0.100       | 0.102      |               | mg/L | 102 | 80 - 120 |        |
| Beryllium  | 0.0500      | 0.0515     |               | mg/L | 103 | 80 - 120 |        |
| Boron      | 0.200       | 0.211      |               | mg/L | 105 | 80 - 120 |        |
| Cadmium    | 0.0500      | 0.0521     |               | mg/L | 104 | 80 - 120 |        |
| Calcium    | 5.00        | 5.17       |               | mg/L | 103 | 80 - 120 |        |
| Chromium   | 0.100       | 0.109      |               | mg/L | 109 | 80 - 120 |        |
| Cobalt     | 0.0500      | 0.0547     |               | mg/L | 109 | 80 - 120 |        |
| Lead       | 0.500       | 0.504      |               | mg/L | 101 | 80 - 120 |        |
| Lithium    | 0.500       | 0.494      |               | mg/L | 99  | 80 - 120 |        |
| Molybdenum | 0.100       | 0.105      |               | mg/L | 105 | 80 - 120 |        |

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# QC Sample Results

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

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

**Lab Sample ID: LCS 680-793587/2-A**

**Matrix: Water**

**Analysis Batch: 793796**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 793587**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D   | %Rec     | Limits |
|----------|-------------|------------|---------------|------|-----|----------|--------|
| Selenium | 0.100       | 0.102      |               | mg/L | 102 | 80 - 120 |        |
| Thallium | 0.0500      | 0.0491     |               | mg/L | 98  | 80 - 120 |        |

**Lab Sample ID: 752-10488-A-4-E MS**

**Matrix: Water**

**Analysis Batch: 793796**

**Client Sample ID: Matrix Spike**

**Prep Type: Total Recoverable**

**Prep Batch: 793587**

| Analyte    | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D   | %Rec     | Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|-----|----------|--------|
| Antimony   | <0.00034      |                  | 0.0500      | 0.0528    |              | mg/L | 106 | 75 - 125 |        |
| Arsenic    | <0.00086      |                  | 0.100       | 0.102     |              | mg/L | 102 | 75 - 125 |        |
| Barium     | 0.75          | F2               | 0.100       | 0.802     | 4            | mg/L | 53  | 75 - 125 |        |
| Beryllium  | <0.00020      |                  | 0.0500      | 0.0519    |              | mg/L | 104 | 75 - 125 |        |
| Boron      | <0.022        |                  | 0.200       | 0.224     |              | mg/L | 112 | 75 - 125 |        |
| Cadmium    | <0.000078     |                  | 0.0500      | 0.0518    |              | mg/L | 104 | 75 - 125 |        |
| Calcium    | 130           | F2               | 5.00        | 129       | 4            | mg/L | -74 | 75 - 125 |        |
| Chromium   | <0.0012       |                  | 0.100       | 0.107     |              | mg/L | 107 | 75 - 125 |        |
| Cobalt     | 0.019         |                  | 0.0500      | 0.0704    |              | mg/L | 103 | 75 - 125 |        |
| Lead       | <0.00021      |                  | 0.500       | 0.509     |              | mg/L | 102 | 75 - 125 |        |
| Lithium    | 0.0028        | J                | 0.500       | 0.477     |              | mg/L | 95  | 75 - 125 |        |
| Molybdenum | <0.00086      |                  | 0.100       | 0.105     |              | mg/L | 105 | 75 - 125 |        |
| Selenium   | <0.00099      |                  | 0.100       | 0.105     |              | mg/L | 105 | 75 - 125 |        |
| Thallium   | <0.00026      |                  | 0.0500      | 0.0504    |              | mg/L | 101 | 75 - 125 |        |

**Lab Sample ID: 752-10488-A-4-F MSD**

**Matrix: Water**

**Analysis Batch: 793796**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total Recoverable**

**Prep Batch: 793587**

| Analyte    | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D     | %Rec     | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|-------|----------|-----|-----------|
| Antimony   | <0.00034      |                  | 0.0500      | 0.0502     |               | mg/L | 100   | 75 - 125 | 5   | 20        |
| Arsenic    | <0.00086      |                  | 0.100       | 0.0989     |               | mg/L | 99    | 75 - 125 | 3   | 20        |
| Barium     | 0.75          | F2               | 0.100       | 0.424      | 4 F2          | mg/L | -325  | 75 - 125 | 62  | 20        |
| Beryllium  | <0.00020      |                  | 0.0500      | 0.0507     |               | mg/L | 101   | 75 - 125 | 2   | 20        |
| Boron      | <0.022        |                  | 0.200       | 0.219      |               | mg/L | 109   | 75 - 125 | 2   | 20        |
| Cadmium    | <0.000078     |                  | 0.0500      | 0.0500     |               | mg/L | 100   | 75 - 125 | 4   | 20        |
| Calcium    | 130           | F2               | 5.00        | 66.0       | 4 F2          | mg/L | -1338 | 75 - 125 | 65  | 20        |
| Chromium   | <0.0012       |                  | 0.100       | 0.102      |               | mg/L | 102   | 75 - 125 | 4   | 20        |
| Cobalt     | 0.019         |                  | 0.0500      | 0.0604     |               | mg/L | 83    | 75 - 125 | 15  | 20        |
| Lead       | <0.00021      |                  | 0.500       | 0.487      |               | mg/L | 97    | 75 - 125 | 4   | 20        |
| Lithium    | 0.0028        | J                | 0.500       | 0.484      |               | mg/L | 96    | 75 - 125 | 1   | 20        |
| Molybdenum | <0.00086      |                  | 0.100       | 0.101      |               | mg/L | 101   | 75 - 125 | 5   | 20        |
| Selenium   | <0.00099      |                  | 0.100       | 0.101      |               | mg/L | 101   | 75 - 125 | 4   | 20        |
| Thallium   | <0.00026      |                  | 0.0500      | 0.0489     |               | mg/L | 98    | 75 - 125 | 3   | 20        |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID:** MB 680-792327/1-A

**Matrix:** Water

**Analysis Batch:** 792548

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 792327

| Analyte | MB<br>Result | MB<br>Qualifier | RL      | MDL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000080    |                 | 0.00020 | 0.000080 | mg/L |   | 08/08/23 12:00 | 08/09/23 10:29 | 1       |

**Lab Sample ID:** LCS 680-792327/2-A

**Matrix:** Water

**Analysis Batch:** 792548

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 792327

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | Limits   |
|---------|----------------|---------------|------------------|------|---|------|----------|
| Mercury | 0.00250        | 0.00245       |                  | mg/L |   | 98   | 80 - 120 |

**Lab Sample ID:** 680-238643-E-3-D MS

**Matrix:** Water

**Analysis Batch:** 792548

**Client Sample ID:** Matrix Spike

**Prep Type:** Total/NA

**Prep Batch:** 792327

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | Limits   |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------|
| Mercury | <0.000080        |                     | 0.00100        | 0.000931     |                 | mg/L |   | 93   | 80 - 120 |

**Lab Sample ID:** 680-238643-E-3-E MSD

**Matrix:** Water

**Analysis Batch:** 792548

**Client Sample ID:** Matrix Spike Duplicate

**Prep Type:** Total/NA

**Prep Batch:** 792327

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | RPD      | RPD | Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------|-----|-------|
| Mercury | <0.000080        |                     | 0.00100        | 0.000831      |                  | mg/L |   | 83   | 80 - 120 | 11  | 20    |

## Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

**Lab Sample ID:** MB 680-791596/1

**Matrix:** Water

**Analysis Batch:** 791596

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

| Analyte                | MB<br>Result | MB<br>Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10          |                 | 10 | 10  | mg/L |   |          | 08/03/23 10:39 | 1       |

**Lab Sample ID:** LCS 680-791596/2

**Matrix:** Water

**Analysis Batch:** 791596

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | Limits   |
|------------------------|----------------|---------------|------------------|------|---|------|----------|
| Total Dissolved Solids | 2380           | 2400          |                  | mg/L |   | 101  | 80 - 120 |

**Lab Sample ID:** LCSD 680-791596/3

**Matrix:** Water

**Analysis Batch:** 791596

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

| Analyte                | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | Limits   | RPD | RPD | Limit |
|------------------------|----------------|----------------|-------------------|------|---|------|----------|-----|-----|-------|
| Total Dissolved Solids | 2380           | 2500           |                   | mg/L |   | 105  | 80 - 120 | 4   | 4   | 25    |

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

**Lab Sample ID:** 680-238329-H-2 DU

**Matrix:** Water

**Analysis Batch:** 791596

**Client Sample ID:** Duplicate  
**Prep Type:** Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 380           |                  | 344       | F3           | mg/L |   | 9   | 5         |

**Lab Sample ID:** 680-238493-C-3 DU

**Matrix:** Water

**Analysis Batch:** 791596

**Client Sample ID:** Duplicate  
**Prep Type:** Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 1200          |                  | 1100      |              | mg/L |   | 4   | 5         |

**Lab Sample ID:** MB 680-791826/1

**Matrix:** Water

**Analysis Batch:** 791826

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

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10       |              | 10 | 10  | mg/L |   |          | 08/04/23 11:57 | 1       |

**Lab Sample ID:** LCS 680-791826/2

**Matrix:** Water

**Analysis Batch:** 791826

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

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 2380        | 2380       |               | mg/L |   | 100  | 80 - 120 |

**Lab Sample ID:** LCSD 680-791826/3

**Matrix:** Water

**Analysis Batch:** 791826

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

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits   | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-----------|
| Total Dissolved Solids | 2380        | 2420        |                | mg/L |   | 102  | 80 - 120 | 1   | 25        |

**Lab Sample ID:** 680-238497-5 DU

**Matrix:** Water

**Analysis Batch:** 791826

**Client Sample ID:** MCI-MGWA-6A  
**Prep Type:** Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 360           |                  | 290       | F3           | mg/L |   | 21  | 5         |

**Lab Sample ID:** MB 680-792118/1

**Matrix:** Water

**Analysis Batch:** 792118

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

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10       |              | 10 | 10  | mg/L |   |          | 08/07/23 12:07 | 1       |

**Lab Sample ID:** LCS 680-792118/2

**Matrix:** Water

**Analysis Batch:** 792118

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

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 2380        | 2440       |               | mg/L |   | 103  | 80 - 120 |

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# QC Sample Results

Client: Southern Company

Job ID: 680-238497-1

Project/Site: Plant McIntosh - Ash Pond 1

## **Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)**

**Lab Sample ID: LCSD 680-792118/3**

**Matrix: Water**

**Analysis Batch: 792118**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D   | %Rec     | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|------|-----|----------|-----|-----------|
| Total Dissolved Solids | 2380        | 2380        |                | mg/L | 100 | 80 - 120 | 2   | 25        |

**Lab Sample ID: 680-238497-7 DU**

**Matrix: Water**

**Analysis Batch: 792118**

**Client Sample ID: MCI-MGWC-2**

**Prep Type: Total/NA**

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 520           |                  | 488       | F3           | mg/L |   | 7   | 5         |

# QC Association Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## HPLC/IC

### Analysis Batch: 791760

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method          | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-238497-1       | MCI-MGWA-10            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-2       | MCI-MGWA-11            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-3       | MCI-MGWA-5             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-4       | MCI-MGWA-6             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-5       | MCI-MGWA-6A            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-6       | MCI-MGWC-1             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-7       | MCI-MGWC-2             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-8       | MCI-MGWC-3             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-9       | MCI-MGWC-7             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-10      | MCI-MGWC-8             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-11      | MCI-MGWC-12            | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-12      | MCI-AP1-FD-01          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-13      | MCI-AP1-FD-02          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-14      | MCI-AP1-FB-01          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-15      | MCI-AP1-FB-02          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-16      | MCI-AP1-EB-03          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-17      | MCI-AP1-EB-04          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| MB 680-791760/2    | Method Blank           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCS 680-791760/4   | Lab Control Sample     | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCSD 680-791760/5  | Lab Control Sample Dup | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238494-E-6 MS  | Matrix Spike           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238494-E-6 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-9 MS    | MCI-MGWC-7             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-9 MSD   | MCI-MGWC-7             | Total/NA  | Water  | 300.0-1993 R2.1 |            |

### Analysis Batch: 792069

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method          | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------------|------------|
| 680-238497-10      | MCI-MGWC-8             | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238497-12      | MCI-AP1-FD-01          | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| MB 680-792069/2    | Method Blank           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCS 680-792069/4   | Lab Control Sample     | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| LCSD 680-792069/5  | Lab Control Sample Dup | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238271-F-2 MS  | Matrix Spike           | Total/NA  | Water  | 300.0-1993 R2.1 |            |
| 680-238271-F-2 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 300.0-1993 R2.1 |            |

## Metals

### Prep Batch: 791512

| Lab Sample ID       | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|--------------------|-------------------|--------|--------|------------|
| 680-238497-3        | MCI-MGWA-5         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-4        | MCI-MGWA-6         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-5        | MCI-MGWA-6A        | Total Recoverable | Water  | 3005A  |            |
| 680-238497-6        | MCI-MGWC-1         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-7        | MCI-MGWC-2         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-9        | MCI-MGWC-7         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-12       | MCI-AP1-FD-01      | Total Recoverable | Water  | 3005A  |            |
| 680-238497-13       | MCI-AP1-FD-02      | Total Recoverable | Water  | 3005A  |            |
| 680-238497-14       | MCI-AP1-FB-01      | Total Recoverable | Water  | 3005A  |            |
| MB 680-791512/1-A   | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 680-791512/2-A  | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 680-238484-A-1-B MS | Matrix Spike       | Total Recoverable | Water  | 3005A  |            |

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# QC Association Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Metals (Continued)

### Prep Batch: 791512 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-238484-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 3005A  |            |

### Prep Batch: 791513

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 680-238497-1       | MCI-MGWA-10        | Total Recoverable | Water  | 3005A  |            |
| 680-238497-2       | MCI-MGWA-11        | Total Recoverable | Water  | 3005A  |            |
| 680-238497-8       | MCI-MGWC-3         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-10      | MCI-MGWC-8         | Total Recoverable | Water  | 3005A  |            |
| 680-238497-11      | MCI-MGWC-12        | Total Recoverable | Water  | 3005A  |            |
| MB 680-791513/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 680-791513/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 791787

| Lab Sample ID        | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-238497-1         | MCI-MGWA-10            | Total Recoverable | Water  | 6020B  | 791513     |
| 680-238497-2         | MCI-MGWA-11            | Total Recoverable | Water  | 6020B  | 791513     |
| 680-238497-3         | MCI-MGWA-5             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-4         | MCI-MGWA-6             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-5         | MCI-MGWA-6A            | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-6         | MCI-MGWC-1             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-7         | MCI-MGWC-2             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-8         | MCI-MGWC-3             | Total Recoverable | Water  | 6020B  | 791513     |
| 680-238497-9         | MCI-MGWC-7             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-10        | MCI-MGWC-8             | Total Recoverable | Water  | 6020B  | 791513     |
| 680-238497-11        | MCI-MGWC-12            | Total Recoverable | Water  | 6020B  | 791513     |
| 680-238497-12        | MCI-AP1-FD-01          | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-13        | MCI-AP1-FD-02          | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-14        | MCI-AP1-FB-01          | Total Recoverable | Water  | 6020B  | 791512     |
| MB 680-791512/1-A    | Method Blank           | Total Recoverable | Water  | 6020B  | 791512     |
| MB 680-791513/1-A    | Method Blank           | Total Recoverable | Water  | 6020B  | 791513     |
| LCS 680-791512/2-A   | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 791512     |
| LCS 680-791513/2-A   | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 791513     |
| 680-238484-A-1-B MS  | Matrix Spike           | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238484-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 6020B  | 791512     |

### Analysis Batch: 791932

| Lab Sample ID        | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 680-238497-3         | MCI-MGWA-5             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-4         | MCI-MGWA-6             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-5         | MCI-MGWA-6A            | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-6         | MCI-MGWC-1             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-7         | MCI-MGWC-2             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-9         | MCI-MGWC-7             | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-12        | MCI-AP1-FD-01          | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-13        | MCI-AP1-FD-02          | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238497-14        | MCI-AP1-FB-01          | Total Recoverable | Water  | 6020B  | 791512     |
| MB 680-791512/1-A    | Method Blank           | Total Recoverable | Water  | 6020B  | 791512     |
| LCS 680-791512/2-A   | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238484-A-1-B MS  | Matrix Spike           | Total Recoverable | Water  | 6020B  | 791512     |
| 680-238484-A-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 6020B  | 791512     |

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# QC Association Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Metals

### Prep Batch: 792327

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-238497-1         | MCI-MGWA-10            | Total/NA  | Water  | 7470A  | 1          |
| 680-238497-2         | MCI-MGWA-11            | Total/NA  | Water  | 7470A  | 2          |
| 680-238497-3         | MCI-MGWA-5             | Total/NA  | Water  | 7470A  | 3          |
| 680-238497-4         | MCI-MGWA-6             | Total/NA  | Water  | 7470A  | 4          |
| 680-238497-5         | MCI-MGWA-6A            | Total/NA  | Water  | 7470A  | 5          |
| 680-238497-6         | MCI-MGWC-1             | Total/NA  | Water  | 7470A  | 6          |
| 680-238497-7         | MCI-MGWC-2             | Total/NA  | Water  | 7470A  | 7          |
| 680-238497-8         | MCI-MGWC-3             | Total/NA  | Water  | 7470A  | 8          |
| 680-238497-9         | MCI-MGWC-7             | Total/NA  | Water  | 7470A  | 9          |
| 680-238497-10        | MCI-MGWC-8             | Total/NA  | Water  | 7470A  | 10         |
| 680-238497-11        | MCI-MGWC-12            | Total/NA  | Water  | 7470A  | 11         |
| 680-238497-12        | MCI-AP1-FD-01          | Total/NA  | Water  | 7470A  | 12         |
| 680-238497-13        | MCI-AP1-FD-02          | Total/NA  | Water  | 7470A  |            |
| 680-238497-14        | MCI-AP1-FB-01          | Total/NA  | Water  | 7470A  |            |
| 680-238497-15        | MCI-AP1-FB-02          | Total/NA  | Water  | 7470A  |            |
| 680-238497-16        | MCI-AP1-EB-03          | Total/NA  | Water  | 7470A  |            |
| 680-238497-17        | MCI-AP1-EB-04          | Total/NA  | Water  | 7470A  |            |
| MB 680-792327/1-A    | Method Blank           | Total/NA  | Water  | 7470A  |            |
| LCS 680-792327/2-A   | Lab Control Sample     | Total/NA  | Water  | 7470A  |            |
| 680-238643-E-3-D MS  | Matrix Spike           | Total/NA  | Water  | 7470A  |            |
| 680-238643-E-3-E MSD | Matrix Spike Duplicate | Total/NA  | Water  | 7470A  |            |

### Analysis Batch: 792548

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 680-238497-1         | MCI-MGWA-10            | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-2         | MCI-MGWA-11            | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-3         | MCI-MGWA-5             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-4         | MCI-MGWA-6             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-5         | MCI-MGWA-6A            | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-6         | MCI-MGWC-1             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-7         | MCI-MGWC-2             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-8         | MCI-MGWC-3             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-9         | MCI-MGWC-7             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-10        | MCI-MGWC-8             | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-11        | MCI-MGWC-12            | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-12        | MCI-AP1-FD-01          | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-13        | MCI-AP1-FD-02          | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-14        | MCI-AP1-FB-01          | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-15        | MCI-AP1-FB-02          | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-16        | MCI-AP1-EB-03          | Total/NA  | Water  | 7470A  | 792327     |
| 680-238497-17        | MCI-AP1-EB-04          | Total/NA  | Water  | 7470A  | 792327     |
| MB 680-792327/1-A    | Method Blank           | Total/NA  | Water  | 7470A  | 792327     |
| LCS 680-792327/2-A   | Lab Control Sample     | Total/NA  | Water  | 7470A  | 792327     |
| 680-238643-E-3-D MS  | Matrix Spike           | Total/NA  | Water  | 7470A  | 792327     |
| 680-238643-E-3-E MSD | Matrix Spike Duplicate | Total/NA  | Water  | 7470A  | 792327     |

### Prep Batch: 793587

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 680-238497-15 | MCI-AP1-FB-02    | Total Recoverable | Water  | 3005A  |            |
| 680-238497-16 | MCI-AP1-EB-03    | Total Recoverable | Water  | 3005A  |            |
| 680-238497-17 | MCI-AP1-EB-04    | Total Recoverable | Water  | 3005A  |            |

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# QC Association Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## Metals (Continued)

### Prep Batch: 793587 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------|--------|------------|
| MB 680-793587/1-A   | Method Blank           | Total Recoverable | Water  | 3005A  |            |
| LCS 680-793587/2-A  | Lab Control Sample     | Total Recoverable | Water  | 3005A  |            |
| 752-10488-A-4-E MS  | Matrix Spike           | Total Recoverable | Water  | 3005A  |            |
| 752-10488-A-4-F MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 793796

| Lab Sample ID       | Client Sample ID       | Prep Type         | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------|--------|------------|
| 680-238497-15       | MCI-AP1-FB-02          | Total Recoverable | Water  | 6020B  | 793587     |
| 680-238497-16       | MCI-AP1-EB-03          | Total Recoverable | Water  | 6020B  | 793587     |
| 680-238497-17       | MCI-AP1-EB-04          | Total Recoverable | Water  | 6020B  | 793587     |
| MB 680-793587/1-A   | Method Blank           | Total Recoverable | Water  | 6020B  | 793587     |
| LCS 680-793587/2-A  | Lab Control Sample     | Total Recoverable | Water  | 6020B  | 793587     |
| 752-10488-A-4-E MS  | Matrix Spike           | Total Recoverable | Water  | 6020B  | 793587     |
| 752-10488-A-4-F MSD | Matrix Spike Duplicate | Total Recoverable | Water  | 6020B  | 793587     |

## General Chemistry

### Analysis Batch: 791596

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-238497-1      | MCI-MGWA-10            | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-2      | MCI-MGWA-11            | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-3      | MCI-MGWA-5             | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-4      | MCI-MGWA-6             | Total/NA  | Water  | 2540C-2011 |            |
| MB 680-791596/1   | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-791596/2  | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-791596/3 | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 680-238329-H-2 DU | Duplicate              | Total/NA  | Water  | 2540C-2011 |            |
| 680-238493-C-3 DU | Duplicate              | Total/NA  | Water  | 2540C-2011 |            |

### Analysis Batch: 791826

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| 680-238497-5      | MCI-MGWA-6A            | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-6      | MCI-MGWC-1             | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-8      | MCI-MGWC-3             | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-10     | MCI-MGWC-8             | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-12     | MCI-AP1-FD-01          | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-13     | MCI-AP1-FD-02          | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-16     | MCI-AP1-EB-03          | Total/NA  | Water  | 2540C-2011 |            |
| MB 680-791826/1   | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-791826/2  | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-791826/3 | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-5 DU   | MCI-MGWA-6A            | Total/NA  | Water  | 2540C-2011 |            |

### Analysis Batch: 792118

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 680-238497-7  | MCI-MGWC-2       | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-9  | MCI-MGWC-7       | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-11 | MCI-MGWC-12      | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-14 | MCI-AP1-FB-01    | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-15 | MCI-AP1-FB-02    | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-17 | MCI-AP1-EB-04    | Total/NA  | Water  | 2540C-2011 |            |

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# QC Association Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

## General Chemistry (Continued)

### Analysis Batch: 792118 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|-------------------|------------------------|-----------|--------|------------|------------|
| MB 680-792118/1   | Method Blank           | Total/NA  | Water  | 2540C-2011 |            |
| LCS 680-792118/2  | Lab Control Sample     | Total/NA  | Water  | 2540C-2011 |            |
| LCSD 680-792118/3 | Lab Control Sample Dup | Total/NA  | Water  | 2540C-2011 |            |
| 680-238497-7 DU   | MCI-MGWC-2             | Total/NA  | Water  | 2540C-2011 |            |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWA-10**  
**Date Collected: 08/01/23 10:54**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-1**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 10:58       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791513       | 08/03/23 05:51       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 20:54       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:32       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 791596       | 08/03/23 10:39       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWA-11**  
**Date Collected: 08/01/23 12:20**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-2**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 11:10       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791513       | 08/03/23 05:51       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 20:58       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:34       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791596       | 08/03/23 10:39       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWA-5**  
**Date Collected: 08/01/23 13:20**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-3**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 11:23       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:27       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791932       | 08/04/23 15:39       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:35       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 791596       | 08/03/23 10:39       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWA-6**  
**Date Collected: 08/01/23 11:50**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-4**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 11:36       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:55       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791932       | 08/04/23 15:55       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:37       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791596       | 08/03/23 10:39       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWA-6A**  
**Date Collected: 08/01/23 10:40**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-5**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 11:48       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:18       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791932       | 08/04/23 15:22       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:41       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-1**  
**Date Collected: 08/01/23 14:04**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-6**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method          | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|-----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1       |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 12:01       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK   |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                 |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                 |     | 1          |                |              | 791787       | 08/03/23 17:10       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                 |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                 |     | 1          |                |              | 791932       | 08/04/23 15:14       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-1**  
Date Collected: 08/01/23 14:04  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-6**  
Matrix: Water

| Prep Type | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA  | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:43       | BJB     | EET SAV |
|           |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA  | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|           |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-2**  
Date Collected: 08/02/23 10:24  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-7**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 12:14       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:31       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 4          |                |              | 791932       | 08/04/23 15:43       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:45       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 792118       | 08/07/23 12:07       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-3**  
Date Collected: 08/01/23 14:43  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-8**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 12:26       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791513       | 08/03/23 05:51       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 21:19       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:46       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-7**  
**Date Collected: 08/02/23 10:21**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-9**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 13:04       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:22       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 4          |                |              | 791932       | 08/04/23 15:34       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:48       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 792118       | 08/07/23 12:07       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-8**  
**Date Collected: 08/01/23 15:44**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-10**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 13:42       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 5          | 5 mL           | 5 mL         | 792069       | 08/07/23 12:51       | GE      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791513       | 08/03/23 05:51       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 21:10       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:49       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-MGWC-12**  
**Date Collected: 08/02/23 11:45**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-11**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 13:55       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791513       | 08/03/23 05:51       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 21:23       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:51       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-MGWC-12**  
**Date Collected: 08/02/23 11:45**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-11**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 2540C-2011   |     | 1          | 200 mL         | 200 mL       | 792118       | 08/07/23 12:07       | PG      | EET SAV |

**Client Sample ID: MCI-AP1-FD-01**  
**Date Collected: 08/01/23 00:00**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-12**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 14:08       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 5          | 5 mL           | 5 mL         | 792069       | 08/07/23 13:03       | GE      | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:35       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791932       | 08/04/23 15:47       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:52       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-AP1-FD-02**  
**Date Collected: 08/01/23 00:00**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-13**  
**Matrix: Water**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 14:20       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 18:03       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791932       | 08/04/23 16:03       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:54       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 50 mL          | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-AP1-FB-01**  
Date Collected: 08/02/23 10:45  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-14**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 14:33       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791787       | 08/03/23 17:14       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 791512       | 08/03/23 05:46       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 791932       | 08/04/23 15:18       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 10:55       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 792118       | 08/07/23 12:07       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-AP1-FB-02**  
Date Collected: 08/02/23 11:05  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-15**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 14:46       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 793587       | 08/16/23 05:44       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 793796       | 08/16/23 16:41       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 11:00       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 792118       | 08/07/23 12:07       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Client Sample ID: MCI-AP1-EB-03**  
Date Collected: 08/01/23 13:10  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-16**  
Matrix: Water

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 14:58       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 793587       | 08/16/23 05:44       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 793796       | 08/16/23 16:53       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 11:02       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 791826       | 08/04/23 11:57       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

**Client Sample ID: MCI-AP1-EB-04**

**Lab Sample ID: 680-238497-17**

**Matrix: Water**

**Date Collected: 08/02/23 10:35**

**Date Received: 08/02/23 13:55**

| Prep Type         | Batch Type | Batch Method               | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 300.0-1993 R2.1            |     | 1          | 5 mL           | 5 mL         | 791760       | 08/04/23 15:11       | T1C     | EET SAV |
|                   |            | Instrument ID: CICK        |     |            |                |              |              |                      |         |         |
| Total Recoverable | Prep       | 3005A                      |     |            | 25 mL          | 125 mL       | 793587       | 08/16/23 05:44       | RR      | EET SAV |
| Total Recoverable | Analysis   | 6020B                      |     | 1          |                |              | 793796       | 08/16/23 16:57       | BWR     | EET SAV |
|                   |            | Instrument ID: ICPMSC      |     |            |                |              |              |                      |         |         |
| Total/NA          | Prep       | 7470A                      |     |            | 50 mL          | 50 mL        | 792327       | 08/08/23 12:00       | DW      | EET SAV |
| Total/NA          | Analysis   | 7470A                      |     | 1          |                |              | 792548       | 08/09/23 11:03       | BJB     | EET SAV |
|                   |            | Instrument ID: QuickTrace2 |     |            |                |              |              |                      |         |         |
| Total/NA          | Analysis   | 2540C-2011                 |     | 1          | 200 mL         | 200 mL       | 792118       | 08/07/23 12:07       | PG      | EET SAV |
|                   |            | Instrument ID: NOEQUIP     |     |            |                |              |              |                      |         |         |

**Laboratory References:**

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Accreditation/Certification Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

### Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Florida   | NELAP   | E87052                | 06-30-24        |
| Georgia   | State   | E87052                | 06-30-24        |

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Eurofins Savannah

# Method Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-1

| Method          | Method Description                                 | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 300.0-1993 R2.1 | Anions, Ion Chromatography                         | MCAWW    | EET SAV    |
| 6020B           | Metals (ICP/MS)                                    | SW846    | EET SAV    |
| 7470A           | Mercury (CVAA)                                     | SW846    | EET SAV    |
| 2540C-2011      | Total Dissolved Solids (Dried at 180 °C)           | SM       | EET SAV    |
| 3005A           | Preparation, Total Recoverable or Dissolved Metals | SW846    | EET SAV    |
| 7470A           | Preparation, Mercury                               | SW846    | EET SAV    |

## Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

## Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



## Chain of Custody Record

|  |  |   |  |                                       |   |   |   |   |  |                            |
|--|--|---|--|---------------------------------------|---|---|---|---|--|----------------------------|
| <b>Client Information</b>  |  | Sampler<br><i>T. Gable/H. Avid</i><br>ACC | Lab PM<br>Fuller David                   | Carrier Tracking No(s)                |   | COC No  |   |   |  |                            |
| Client Contact:<br>SCS Contacts  |  | Phone<br>770-594-5998                     | E-Mail<br>david.fuller@et.eurofinsus.com |                                       |   | Page  | 2 of 2  |   |  |                            |
| Company<br>GA Power  |  | Analysis Requested                        |  |                                       |   |   | Job #:  |   |  |                            |
| Address<br>241 Ralph McGill Blvd SE  |  | Due Date Requested                        |  |                                       |   |   | Preservation Codes  |   |  |                            |
| City<br>Atlanta  |  | TAT Requested (days)                      |  |                                       |   |   | A HCL M - Hexane<br>B NaOH N - None<br>C Zn Acetate O AsNaO2<br>D Nitric Acid P Na2O4S<br>E NaHSO4 Q Na2SO3<br>F MeOH R Na2S2O3<br>G Amchlor S H2SO4<br>H Ascorbic Acid T TSP Dodecahydrate<br>I Ice U Acetone<br>J DI Water V MCAA<br>K EDTA W pH 4-5<br>L EDA Z other (specify)<br>Other: |   |  |                            |
| State Zip:<br>GA, 30308  |  | Lab Project #<br>68027747                 |  |                                       |   |   |   |   |  |                            |
| Phone<br>404-506-7116(Tel)   |  | PO #:                                     |  |                                       |   |   |   |   |  |                            |
| Email<br>SCS Contacts / ACC Contacts   |  | Project #:                                |  |                                       |   |   |   |   |  |                            |
| Project Name<br>Plant McIntosh - Ash Pond 1  |  | Project #:                                |  |                                       |   |   |   |   |  |                            |
| Site<br>Georgia  |  | SSOW#:                                    |  |                                       |   |   |   |   |  |                            |
| Sample Identification  |  | Sample Date<br>(mm/dd/yy)                 | Sample<br>Time<br>(hhmm)                 | Sample<br>Type<br>(C=Comp,<br>G=grab) | Matrix<br>(WG=ground<br>water WS=surface<br>water WQ=quality<br>control)  | Field Filtered Sample (Yes or No)<br>Perform MS/MSD (Yes or No) | App. III Metals (B, Ca)<br>Cl, F, SO <sub>4</sub> , TDS<br>(EPA 3000 & SM 2540C)  | App. IV Metals<br>(Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti)<br>(EPA 6020/7470) | Radium 226 & 228<br>(SW-846 3315/9320) | Total Number of containers |
| MCI- API-FD-01   |  | 08/01/23                                  | —  | G <i>WQ</i>                           | N N   | / /   | /   | /   | 13                                     |                            |
| MCI- API-FD-02   |  | 08/01/23                                  | —  | G <i>WQ</i>                           | N N   | / /   | /   | /   | 5                                      |                            |
| MCI- API-FB-01   |  | 08/02/23                                  | 1045                                     | G <i>WQ</i>                           | N N   | / /   | /   | /   | 5                                      |                            |
| MCI- API-FB-02   |  | 08/02/23                                  | 1105                                     | G <i>WQ</i>                           | N N   | / /   | /   | /   | 5                                      |                            |
| MCI- API-EB-03   |  | 08/01/23                                  | 1310                                     | G <i>WQ</i>                           | N N   | / /   | /   | /   | 5                                      |                            |
| MCI- API-EB-04   |  | 08/02/23                                  | 1035                                     | G <i>WQ</i>                           | N N   | / /   | /   | /   | 5                                      |                            |
| MCI-   |  |   |  | G                                     | N   |   |   |   |  |                            |
| MCI-   |  |   |  | G                                     | N   |   |   |   |  |                            |
| MCI-   |  |   |  | G                                     | N   |   |   |   |  |                            |
| MCI-   |  |   |  | G                                     | N   |   |   |   |  |                            |
| MCI-   |  |   |  | G                                     | N   |   |   |   |  |                            |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |   |  |                                       | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |   |   |   |  |                            |
| Deliverable Requested I, II, III, IV, Other (specify)  |  |   |  |                                       | Special Instructions/QC Requirements  |   |   |   |  |                            |
| Empty Kit Relinquished by  |  | Date                                      | Time                                     |                                       | Method of Shipment:   |   |   |   |  |                            |
| Relinquished by <i>H. Avid</i>   |  | Date/Time<br>8-2-23 / 1355                | Company<br>ACC                           |                                       | Received by   |   |   | Date/Time   |  |                            |
| Relinquished by  |  | Date/Time                                 | Company                                  |                                       | Received by   |   |   | Date/Time   |  |                            |
| Relinquished by  |  | Date/Time                                 | Company                                  |                                       | Received by <i>C. Morris</i>  |   |   | Date/Time<br>8/2/23 1355  |  |                            |
| Custody Seals Intact<br>△ Yes △ No   |  | Custody Seal No                           |  |                                       | Cooler Temperature(s) °C and Other Remarks  |   |   |   |  |                            |

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-238497-1

**Login Number:** 238497

**List Source:** Eurofins Savannah

**List Number:** 1

**Creator:** Padayao, Abigail

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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Generated 9/8/2023 10:36:37 AM

## JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

## JOB NUMBER

680-238497-2

# Eurofins Savannah

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
9/8/2023 10:36:37 AM

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

## Definitions/Glossary

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

### Qualifiers

#### Rad

| Qualifier | Qualifier Description                           |
|-----------|---|
| U         | Result is less than the sample detection limit. |

### Glossary

**Abbreviation** **These commonly used abbreviations may or may not be present in this report.**

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

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## Sample Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |    |
|---------------|------------------|--------|----------------|----------------|----|
| 680-238497-1  | MCI-MGWA-10      | Water  | 08/01/23 10:54 | 08/02/23 13:55 | 1  |
| 680-238497-2  | MCI-MGWA-11      | Water  | 08/01/23 12:20 | 08/02/23 13:55 | 2  |
| 680-238497-3  | MCI-MGWA-5       | Water  | 08/01/23 13:20 | 08/02/23 13:55 | 3  |
| 680-238497-4  | MCI-MGWA-6       | Water  | 08/01/23 11:50 | 08/02/23 13:55 | 4  |
| 680-238497-5  | MCI-MGWA-6A      | Water  | 08/01/23 10:40 | 08/02/23 13:55 | 5  |
| 680-238497-6  | MCI-MGWC-1       | Water  | 08/01/23 14:04 | 08/02/23 13:55 | 6  |
| 680-238497-7  | MCI-MGWC-2       | Water  | 08/02/23 10:24 | 08/02/23 13:55 | 7  |
| 680-238497-8  | MCI-MGWC-3       | Water  | 08/01/23 14:43 | 08/02/23 13:55 | 8  |
| 680-238497-9  | MCI-MGWC-7       | Water  | 08/02/23 10:21 | 08/02/23 13:55 | 9  |
| 680-238497-10 | MCI-MGWC-8       | Water  | 08/01/23 15:44 | 08/02/23 13:55 | 10 |
| 680-238497-11 | MCI-MGWC-12      | Water  | 08/02/23 11:45 | 08/02/23 13:55 | 11 |
| 680-238497-12 | MCI-AP1-FD-01    | Water  | 08/01/23 00:00 | 08/02/23 13:55 | 12 |
| 680-238497-13 | MCI-AP1-FD-02    | Water  | 08/01/23 00:00 | 08/02/23 13:55 | 13 |
| 680-238497-14 | MCI-AP1-FB-01    | Water  | 08/02/23 10:45 | 08/02/23 13:55 |    |
| 680-238497-15 | MCI-AP1-FB-02    | Water  | 08/02/23 11:05 | 08/02/23 13:55 |    |
| 680-238497-16 | MCI-AP1-EB-03    | Water  | 08/01/23 13:10 | 08/02/23 13:55 |    |
| 680-238497-17 | MCI-AP1-EB-04    | Water  | 08/02/23 10:35 | 08/02/23 13:55 |    |

# Case Narrative

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

## Job ID: 680-238497-2

### Laboratory: Eurofins Savannah

#### Narrative

#### Job Narrative 680-238497-2

#### Receipt

The samples were received on 8/2/2023 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.6°C, 0.9°C, 1.3°C and 2.1°C

#### Gas Flow Proportional Counter

Method 9315\_Ra226: Radium-226 Prep Batch 160-623459 Insufficient sample volume was available to perform a sample duplicate for the following samples: MCI-MGWA-10 (680-238497-1), MCI-MGWA-11 (680-238497-2), MCI-MGWA-5 (680-238497-3), MCI-MGWA-6 (680-238497-4), MCI-MGWA-6A (680-238497-5), MCI-MGWC-1 (680-238497-6), MCI-MGWC-2 (680-238497-7), MCI-MGWC-3 (680-238497-8), MCI-MGWC-7 (680-238497-9), MCI-MGWC-8 (680-238497-10), MCI-MGWC-12 (680-238497-11), MCI-AP1-FD-01 (680-238497-12), MCI-AP1-FD-02 (680-238497-13), MCI-AP1-FB-01 (680-238497-14), MCI-AP1-FB-02 (680-238497-15), MCI-AP1-EB-03 (680-238497-16) and MCI-AP1-EB-04 (680-238497-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315\_Ra226: Radium-226 batch 623459 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MCI-MGWA-10 (680-238497-1), MCI-MGWA-11 (680-238497-2), MCI-MGWA-5 (680-238497-3), MCI-MGWA-6 (680-238497-4), MCI-MGWA-6A (680-238497-5), MCI-MGWC-1 (680-238497-6), MCI-MGWC-2 (680-238497-7), MCI-MGWC-3 (680-238497-8), MCI-MGWC-7 (680-238497-9), MCI-MGWC-8 (680-238497-10), MCI-MGWC-12 (680-238497-11), MCI-AP1-FD-01 (680-238497-12), MCI-AP1-FD-02 (680-238497-13), MCI-AP1-FB-01 (680-238497-14), MCI-AP1-FB-02 (680-238497-15), MCI-AP1-EB-03 (680-238497-16), MCI-AP1-EB-04 (680-238497-17), (LCS 160-623459/2-A), (LCSD 160-623459/3-A) and (MB 160-623459/1-A)

Method 9320\_Ra228: Radium-228 Prep Batch 160-623460 Insufficient sample volume was available to perform a sample duplicate for the following samples: MCI-MGWA-10 (680-238497-1), MCI-MGWA-11 (680-238497-2), MCI-MGWA-5 (680-238497-3), MCI-MGWA-6 (680-238497-4), MCI-MGWA-6A (680-238497-5), MCI-MGWC-1 (680-238497-6), MCI-MGWC-2 (680-238497-7), MCI-MGWC-3 (680-238497-8), MCI-MGWC-7 (680-238497-9), MCI-MGWC-8 (680-238497-10), MCI-MGWC-12 (680-238497-11), MCI-AP1-FD-01 (680-238497-12), MCI-AP1-FD-02 (680-238497-13), MCI-AP1-FB-01 (680-238497-14), MCI-AP1-FB-02 (680-238497-15), MCI-AP1-EB-03 (680-238497-16) and MCI-AP1-EB-04 (680-238497-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320\_Ra228: Radium-228 batch 623460 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MCI-MGWA-10 (680-238497-1), MCI-MGWA-11 (680-238497-2), MCI-MGWA-5 (680-238497-3), MCI-MGWA-6 (680-238497-4), MCI-MGWA-6A (680-238497-5), MCI-MGWC-1 (680-238497-6), MCI-MGWC-2 (680-238497-7), MCI-MGWC-3 (680-238497-8), MCI-MGWC-7 (680-238497-9), MCI-MGWC-8 (680-238497-10), MCI-MGWC-12 (680-238497-11), MCI-AP1-FD-01 (680-238497-12), MCI-AP1-FD-02 (680-238497-13), MCI-AP1-FB-01 (680-238497-14), MCI-AP1-FB-02 (680-238497-15), MCI-AP1-EB-03 (680-238497-16), MCI-AP1-EB-04 (680-238497-17), (LCS 160-623460/2-A), (LCSD 160-623460/3-A) and (MB 160-623460/1-A)

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

#### Rad

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

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWA-10**  
Date Collected: 08/01/23 10:54  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-1**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.351  |           | 0.229              | 0.231              | 1.00 | 0.298 | pCi/L | 08/09/23 10:16 | 09/01/23 16:09 | 1       |

| Carrier    | %Yield | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 89.2   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:16 | 09/01/23 16:09 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.195  | U         | 0.325              | 0.325              | 1.00 | 0.557 | pCi/L | 08/09/23 10:19 | 09/01/23 11:36 | 1       |

| Carrier    | %Yield | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 89.2   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:36 | 1       |
| Y Carrier  | 85.6   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:36 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium 226 + 228 | 0.546  | U         | 0.398              | 0.399              | 5.00 | 0.557 | pCi/L |          | 09/07/23 14:06 | 1       |

**Client Sample ID: MCI-MGWA-11**

**Lab Sample ID: 680-238497-2**

Date Collected: 08/01/23 12:20

Matrix: Water

Date Received: 08/02/23 13:55

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.294  | U         | 0.229              | 0.231              | 1.00 | 0.320 | pCi/L | 08/09/23 10:16 | 09/01/23 16:09 | 1       |

| Carrier    | %Yield | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 81.9   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:16 | 09/01/23 16:09 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 1.58   |           | 0.520              | 0.540              | 1.00 | 0.622 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

| Carrier    | %Yield | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 81.9   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Y Carrier  | 89.0   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWA-11**  
Date Collected: 08/01/23 12:20  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-2**  
Matrix: Water

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 1.87   |           | 0.568              | 0.587              | 5.00 | 0.622 | pCi/L |          | 09/07/23 14:06 | 1       |

## Client Sample ID: MCI-MGWA-5

Date Collected: 08/01/23 13:20  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-3**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 0.0551 | U         | 0.173              | 0.173              | 1.00 | 0.332 | pCi/L | 08/09/23 10:16 | 09/01/23 16:09 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 87.3   | %Yield    | Qualifier          | Limits             |      |       |       | Prepared       | Analyzed       | Dil Fac |
|                |        |           |                    | 30 - 110           |      |       |       | 08/09/23 10:16 | 09/01/23 16:09 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228     | 0.927  |           | 0.442              | 0.450              | 1.00 | 0.606 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 87.3   | %Yield    | Qualifier          | Limits             |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Y Carrier      | 86.7   |           |                    | 30 - 110           |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 0.982  |           | 0.475              | 0.482              | 5.00 | 0.606 | pCi/L |          | 09/07/23 14:06 | 1       |

## Client Sample ID: MCI-MGWA-6

Date Collected: 08/01/23 11:50  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-4**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 0.263  | U         | 0.226              | 0.228              | 1.00 | 0.330 | pCi/L | 08/09/23 10:16 | 09/01/23 16:11 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 80.1   | %Yield    | Qualifier          | Limits             |      |       |       | Prepared       | Analyzed       | Dil Fac |
|                |        |           |                    | 30 - 110           |      |       |       | 08/09/23 10:16 | 09/01/23 16:11 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWA-6**

**Lab Sample ID: 680-238497-4**

Matrix: Water

Date Collected: 08/01/23 11:50  
Date Received: 08/02/23 13:55

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 1.01   |           | 0.482              | 0.491              | 1.00 | 0.646 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 80.1   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Y Carrier  | 80.7   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium<br>226 + 228 | 1.27   |           | 0.532              | 0.541              | 5.00 | 0.646 | pCi/L | 09/07/23 14:06 |          | 1       |

**Client Sample ID: MCI-MGWA-6A**

**Lab Sample ID: 680-238497-5**

Matrix: Water

Date Collected: 08/01/23 10:40  
Date Received: 08/02/23 13:55

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.512  |           | 0.279              | 0.283              | 1.00 | 0.323 | pCi/L | 08/09/23 10:16 | 09/01/23 16:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 78.9   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:11 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.929  |           | 0.469              | 0.477              | 1.00 | 0.652 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 78.9   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Y Carrier  | 84.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium<br>226 + 228 | 1.44   |           | 0.546              | 0.555              | 5.00 | 0.652 | pCi/L | 09/07/23 14:06 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWC-1**  
Date Collected: 08/01/23 14:04  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-6**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 1.01   |           | 0.335              | 0.347              | 1.00 | 0.274 | pCi/L | 08/09/23 10:16 | 09/01/23 16:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 89.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:11 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.601  |           | 0.363              | 0.367              | 1.00 | 0.521 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 89.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Y Carrier  | 87.9   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium<br>226 + 228 | 1.61   |           | 0.494              | 0.505              | 5.00 | 0.521 | pCi/L | 09/07/23 14:06 |          | 1       |

## Client Sample ID: MCI-MGWC-2

Date Collected: 08/02/23 10:24  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-7**

Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.0963 | U         | 0.193              | 0.193              | 1.00 | 0.348 | pCi/L | 08/09/23 10:16 | 09/01/23 16:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 85.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:11 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.997  |           | 0.406              | 0.416              | 1.00 | 0.508 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 85.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Y Carrier  | 85.2   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWC-2**  
Date Collected: 08/02/23 10:24  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-7**  
Matrix: Water

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 1.09   |           | 0.450              | 0.459              | 5.00 | 0.508 | pCi/L |          | 09/07/23 14:06 | 1       |

**Client Sample ID: MCI-MGWC-3**

Date Collected: 08/01/23 14:43  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-8**  
Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 1.05   |           | 0.350              | 0.363              | 1.00 | 0.309 | pCi/L | 08/09/23 10:16 | 09/01/23 16:11 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.4   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:11 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 1.02   |           | 0.404              | 0.415              | 1.00 | 0.502 | pCi/L | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 90.4   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |
| Y Carrier  | 87.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:39 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 2.07   |           | 0.535              | 0.551              | 5.00 | 0.502 | pCi/L |          | 09/07/23 14:06 | 1       |

**Client Sample ID: MCI-MGWC-7**

Date Collected: 08/02/23 10:21  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-9**  
Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 1.14   |           | 0.370              | 0.384              | 1.00 | 0.333 | pCi/L | 08/09/23 10:16 | 09/01/23 16:16 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Ba Carrier | 87.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:16 | 1       |

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWC-7**  
**Date Collected: 08/02/23 10:21**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-9**  
**Matrix: Water**

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |  |  |  |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|--|--|--|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |  |  |  |
| Radium-228     | 0.315  | U         | 0.358              | 0.359              | 1.00 | 0.587 | pCi/L | 08/09/23 10:19  | 09/01/23 11:39  | 1              |  |  |  |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                 |                 |                |  |  |  |
| Ba Carrier     | 87.5   | Qualifer  | <b>Limits</b>      |                    |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |  |  |  |
|                |        |           | 30 - 110           |                    |      |       |       |                 |                 |                |  |  |  |
| Y Carrier      | 81.9   | Qualifer  | 30 - 110           |                    |      |       |       |                 |                 |                |  |  |  |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium<br>226 + 228 | 1.46   |           | 0.515              | 0.526              | 5.00 | 0.587 | pCi/L | 09/07/23 14:06 |          | 1       |

**Client Sample ID: MCI-MGWC-8**

Date Collected: 08/01/23 15:44  
 Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-10**

Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-226     | 0.498  |           | 0.331              | 0.334              | 1.00 | 0.469 | pCi/L | 08/09/23 10:16  | 09/01/23 16:16  | 1              |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                 |                 |                |
| Ba Carrier     | 81.6   | Qualifer  | <b>Limits</b>      |                    |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
|                |        |           | 30 - 110           |                    |      |       |       |                 |                 |                |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |  |  |  |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|--|--|--|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |  |  |  |
| Radium-228     | 0.374  | U         | 0.410              | 0.411              | 1.00 | 0.669 | pCi/L | 08/09/23 10:19  | 09/01/23 11:45  | 1              |  |  |  |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                 |                 |                |  |  |  |
| Ba Carrier     | 81.6   | Qualifer  | <b>Limits</b>      |                    |      |       |       | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |  |  |  |
|                |        |           | 30 - 110           |                    |      |       |       |                 |                 |                |  |  |  |
| Y Carrier      | 83.0   | Qualifer  | 30 - 110           |                    |      |       |       |                 |                 |                |  |  |  |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium<br>226 + 228 | 0.872  |           | 0.527              | 0.530              | 5.00 | 0.669 | pCi/L | 09/07/23 14:06 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-MGWC-12**  
Date Collected: 08/02/23 11:45  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-11**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.0563 | U         | 0.210              | 0.210              | 1.00 | 0.397 | pCi/L | 08/09/23 10:16 | 09/01/23 16:16 | 1       |

| Carrier    | %Yield | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 87.3   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:16 | 09/01/23 16:16 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 0.376  | U         | 0.397              | 0.398              | 1.00 | 0.645 | pCi/L | 08/09/23 10:19 | 09/01/23 11:45 | 1       |

| Carrier    | %Yield | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 87.3   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:45 | 1       |
| Y Carrier  | 83.4   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:45 | 1       |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.432  | U         | 0.449              | 0.450              | 5.00 | 0.645 | pCi/L | 09/07/23 14:06 |          | 1       |

# Client Sample ID: MCI-AP1-FD-01

Date Collected: 08/01/23 00:00

Lab Sample ID: 680-238497-12

Date Received: 08/02/23 13:55

Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226 | 0.670  |           | 0.316              | 0.321              | 1.00 | 0.379 | pCi/L | 08/09/23 10:16 | 09/01/23 16:16 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:16 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228 | 1.09   |           | 0.497              | 0.507              | 1.00 | 0.684 | pCi/L | 08/09/23 10:19 | 09/01/23 11:45 | 1       |
| Carrier    | %Yield | Qualifier | Limits             |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:45 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte    | Result | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|------------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|            |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Ba Carrier | 85.5   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:45 | 1       |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte   | Result | Qualifier | Count              | Total              | RL | MDC | Unit | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|--------------------|--------------------|----|-----|------|----------------|----------------|---------|
|           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |    |     |      |                |                |         |
| Y Carrier | 81.1   |           | 30 - 110           |                    |    |     |      | 08/09/23 10:19 | 09/01/23 11:45 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-AP1-FD-01**  
Date Collected: 08/01/23 00:00  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-12**  
Matrix: Water

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 1.76   |           | 0.589              | 0.600              | 5.00 | 0.684 | pCi/L |          | 09/07/23 15:41 | 1       |

**Client Sample ID: MCI-AP1-FD-02**

Date Collected: 08/01/23 00:00  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-13**  
Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 1.16   |           | 0.372              | 0.386              | 1.00 | 0.311 | pCi/L | 08/09/23 10:16 | 09/01/23 16:16 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 87.5   |           | <b>Limits</b>      |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
|                |        |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:16 | 1       |

**Method: SW846 9320 - Radium-228 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-228     | 0.860  |           | 0.448              | 0.455              | 1.00 | 0.633 | pCi/L | 08/09/23 10:19 | 09/01/23 11:44 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 87.5   |           | <b>Limits</b>      |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
| Y Carrier      | 83.7   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19 | 09/01/23 11:44 | 1       |

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 2.02   |           | 0.582              | 0.597              | 5.00 | 0.633 | pCi/L |          | 09/07/23 15:41 | 1       |

**Client Sample ID: MCI-AP1-FB-01**

Date Collected: 08/02/23 10:45  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-14**  
Matrix: Water

**Method: SW846 9315 - Radium-226 (GFPC)**

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------------|---------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |                |         |
| Radium-226     | 0.0463 | U         | 0.168              | 0.168              | 1.00 | 0.327 | pCi/L | 08/09/23 10:16 | 09/01/23 16:16 | 1       |
| <b>Carrier</b> |        |           |                    |                    |      |       |       |                |                |         |
| Ba Carrier     | 91.4   |           | <b>Limits</b>      |                    |      |       |       | Prepared       | Analyzed       | Dil Fac |
|                |        |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16 | 09/01/23 16:16 | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-AP1-FB-01**  
Date Collected: 08/02/23 10:45  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-14**  
Matrix: Water

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |                |
| Radium-228     | 0.413  | U         | 0.341              | 0.343              | 1.00     | 0.530 | pCi/L | 08/09/23 10:19 | 09/01/23 11:44 | 1              |
| <b>Carrier</b> |        |           |                    |                    |          |       |       |                |                |                |
| Ba Carrier     | 91.4   | U         | <b>Limits</b>      |                    | 30 - 110 | 5.00  | 0.530 | pCi/L          | Prepared       | Analyzed       |
|                |        |           |                    |                    |          |       |       |                |                |                |
| Y Carrier      | 86.7   |           | 30 - 110           |                    |          |       |       |                | 08/09/23 10:19 | 09/01/23 11:44 |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | 0.459  | U         | 0.380              | 0.382              | 5.00 | 0.530 | pCi/L | 09/07/23 15:41 |          | 1       |

# Client Sample ID: MCI-AP1-FB-02

Date Collected: 08/02/23 11:05  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-15**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result  | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac        |
|----------------|---------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|----------------|
|                |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |                |
| Radium-226     | -0.0836 | U         | 0.122              | 0.123              | 1.00     | 0.328 | pCi/L | 08/09/23 10:16 | 09/01/23 16:16 | 1              |
| <b>Carrier</b> |         |           |                    |                    |          |       |       |                |                |                |
| Ba Carrier     | 87.3    | U         | <b>Limits</b>      |                    | 30 - 110 | 5.00  | 0.328 | pCi/L          | Prepared       | Analyzed       |
|                |         |           |                    |                    |          |       |       |                |                |                |
| Y Carrier      | 87.3    |           | 30 - 110           |                    |          |       |       |                | 08/09/23 10:16 | 09/01/23 16:16 |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result  | Qualifier | Count              | Total              | RL       | MDC   | Unit  | Prepared       | Analyzed       | Dil Fac        |
|----------------|---------|-----------|--------------------|--------------------|----------|-------|-------|----------------|----------------|----------------|
|                |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |          |       |       |                |                |                |
| Radium-228     | -0.0120 | U         | 0.412              | 0.412              | 1.00     | 0.751 | pCi/L | 08/09/23 10:19 | 09/01/23 11:44 | 1              |
| <b>Carrier</b> |         |           |                    |                    |          |       |       |                |                |                |
| Ba Carrier     | 87.3    | U         | <b>Limits</b>      |                    | 30 - 110 | 5.00  | 0.751 | pCi/L          | Prepared       | Analyzed       |
|                |         |           |                    |                    |          |       |       |                |                |                |
| Y Carrier      | 89.0    |           | 30 - 110           |                    |          |       |       |                | 08/09/23 10:19 | 09/01/23 11:44 |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                   | Result  | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared       | Analyzed | Dil Fac |
|---------------------------|---------|-----------|--------------------|--------------------|------|-------|-------|----------------|----------|---------|
|                           |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                |          |         |
| Combined Radium 226 + 228 | -0.0956 | U         | 0.430              | 0.430              | 5.00 | 0.751 | pCi/L | 09/07/23 15:41 |          | 1       |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-AP1-EB-03**  
Date Collected: 08/01/23 13:10  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-16**  
Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-226     | 0.0755 | U         | 0.234              | 0.234              | 1.00 | 0.433 | pCi/L | 08/09/23 10:16  | 09/01/23 16:16  | 1              |
| <i>Carrier</i> | %Yield | Qualifier | <i>Limits</i>      |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 89.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16  | 09/01/23 16:16  | 1              |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | 0.459  | U         | 0.348              | 0.350              | 1.00 | 0.531 | pCi/L | 08/09/23 10:19  | 09/01/23 11:42  | 1              |
| <i>Carrier</i> | %Yield | Qualifier | <i>Limits</i>      |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 89.5   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19  | 09/01/23 11:42  | 1              |
| Y Carrier      | 84.1   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19  | 09/01/23 11:42  | 1              |

## Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228

| Analyte                      | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                              |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium<br>226 + 228 | 0.535  |           | 0.419              | 0.421              | 5.00 | 0.531 | pCi/L |          | 09/07/23 15:41 | 1       |

## Client Sample ID: MCI-AP1-EB-04

Date Collected: 08/02/23 10:35

**Lab Sample ID: 680-238497-17**

Date Received: 08/02/23 13:55

Matrix: Water

## Method: SW846 9315 - Radium-226 (GFPC)

| Analyte        | Result | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|--------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |        |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-226     | 0.0451 | U         | 0.195              | 0.195              | 1.00 | 0.369 | pCi/L | 08/09/23 10:16  | 09/01/23 16:23  | 1              |
| <i>Carrier</i> | %Yield | Qualifier | <i>Limits</i>      |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 91.9   |           | 30 - 110           |                    |      |       |       | 08/09/23 10:16  | 09/01/23 16:23  | 1              |

## Method: SW846 9320 - Radium-228 (GFPC)

| Analyte        | Result  | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared        | Analyzed        | Dil Fac        |
|----------------|---------|-----------|--------------------|--------------------|------|-------|-------|-----------------|-----------------|----------------|
|                |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |                 |                 |                |
| Radium-228     | -0.0438 | U         | 0.276              | 0.276              | 1.00 | 0.532 | pCi/L | 08/09/23 10:19  | 09/01/23 11:41  | 1              |
| <i>Carrier</i> | %Yield  | Qualifier | <i>Limits</i>      |                    |      |       |       | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| Ba Carrier     | 91.9    |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19  | 09/01/23 11:41  | 1              |
| Y Carrier      | 85.2    |           | 30 - 110           |                    |      |       |       | 08/09/23 10:19  | 09/01/23 11:41  | 1              |

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-AP1-EB-04**  
Date Collected: 08/02/23 10:35  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-17**  
Matrix: Water

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

| Analyte                   | Result  | Qualifier | Count              | Total              | RL   | MDC   | Unit  | Prepared | Analyzed       | Dil Fac |
|---------------------------|---------|-----------|--------------------|--------------------|------|-------|-------|----------|----------------|---------|
|                           |         |           | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |      |       |       |          |                |         |
| Combined Radium 226 + 228 | 0.00125 | U         | 0.338              | 0.338              | 5.00 | 0.532 | pCi/L |          | 09/07/23 15:41 | 1       |

# Tracer/Carrier Summary

Client: Southern Company

Job ID: 680-238497-2

Project/Site: Plant McIntosh - Ash Pond 1

## Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Yield (Acceptance Limits) |  |
|---------------------|------------------------|-----------------------------------|--|
|                     |                        | Ba<br>(30-110)                    |  |
| 680-238497-1        | MCI-MGWA-10            | 89.2                              |  |
| 680-238497-2        | MCI-MGWA-11            | 81.9                              |  |
| 680-238497-3        | MCI-MGWA-5             | 87.3                              |  |
| 680-238497-4        | MCI-MGWA-6             | 80.1                              |  |
| 680-238497-5        | MCI-MGWA-6A            | 78.9                              |  |
| 680-238497-6        | MCI-MGWC-1             | 89.5                              |  |
| 680-238497-7        | MCI-MGWC-2             | 85.5                              |  |
| 680-238497-8        | MCI-MGWC-3             | 90.4                              |  |
| 680-238497-9        | MCI-MGWC-7             | 87.5                              |  |
| 680-238497-10       | MCI-MGWC-8             | 81.6                              |  |
| 680-238497-11       | MCI-MGWC-12            | 87.3                              |  |
| 680-238497-12       | MCI-AP1-FD-01          | 85.5                              |  |
| 680-238497-13       | MCI-AP1-FD-02          | 87.5                              |  |
| 680-238497-14       | MCI-AP1-FB-01          | 91.4                              |  |
| 680-238497-15       | MCI-AP1-FB-02          | 87.3                              |  |
| 680-238497-16       | MCI-AP1-EB-03          | 89.5                              |  |
| 680-238497-17       | MCI-AP1-EB-04          | 91.9                              |  |
| LCS 160-623459/2-A  | Lab Control Sample     | 87.5                              |  |
| LCSD 160-623459/3-A | Lab Control Sample Dup | 90.2                              |  |
| MB 160-623459/1-A   | Method Blank           | 90.2                              |  |

### Tracer/Carrier Legend

Ba = Ba Carrier

## Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Yield (Acceptance Limits) |               |
|---------------------|------------------------|-----------------------------------|---------------|
|                     |                        | Ba<br>(30-110)                    | Y<br>(30-110) |
| 680-238497-1        | MCI-MGWA-10            | 89.2                              | 85.6          |
| 680-238497-2        | MCI-MGWA-11            | 81.9                              | 89.0          |
| 680-238497-3        | MCI-MGWA-5             | 87.3                              | 86.7          |
| 680-238497-4        | MCI-MGWA-6             | 80.1                              | 80.7          |
| 680-238497-5        | MCI-MGWA-6A            | 78.9                              | 84.5          |
| 680-238497-6        | MCI-MGWC-1             | 89.5                              | 87.9          |
| 680-238497-7        | MCI-MGWC-2             | 85.5                              | 85.2          |
| 680-238497-8        | MCI-MGWC-3             | 90.4                              | 87.5          |
| 680-238497-9        | MCI-MGWC-7             | 87.5                              | 81.9          |
| 680-238497-10       | MCI-MGWC-8             | 81.6                              | 83.0          |
| 680-238497-11       | MCI-MGWC-12            | 87.3                              | 83.4          |
| 680-238497-12       | MCI-AP1-FD-01          | 85.5                              | 81.1          |
| 680-238497-13       | MCI-AP1-FD-02          | 87.5                              | 83.7          |
| 680-238497-14       | MCI-AP1-FB-01          | 91.4                              | 86.7          |
| 680-238497-15       | MCI-AP1-FB-02          | 87.3                              | 89.0          |
| 680-238497-16       | MCI-AP1-EB-03          | 89.5                              | 84.1          |
| 680-238497-17       | MCI-AP1-EB-04          | 91.9                              | 85.2          |
| LCS 160-623460/2-A  | Lab Control Sample     | 87.5                              | 85.2          |
| LCSD 160-623460/3-A | Lab Control Sample Dup | 90.2                              | 86.4          |
| MB 160-623460/1-A   | Method Blank           | 90.2                              | 85.2          |

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## Tracer/Carrier Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

1

2

3

4

5

6

7

8

9

10

11

12

13

# QC Sample Results

Client: Southern Company

Job ID: 680-238497-2

Project/Site: Plant McIntosh - Ash Pond 1

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID:** MB 160-623459/1-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 626379

**Prep Batch:** 623459

| Analyte        | Result  | MB<br>MB<br>U | Count              |                    | Total              |                    | RL    | MDC            | Unit           | Prepared       | Analyzed       | Dil Fac |
|----------------|---------|---------------|--------------------|--------------------|--------------------|--------------------|-------|----------------|----------------|----------------|----------------|---------|
|                |         |               | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |       |                |                |                |                |         |
| Radium-226     | -0.1426 | U             | 0.0897             | 0.0906             | 1.00               | 0.306              | pCi/L | 08/09/23 10:16 | 09/01/23 16:08 | 1              |                |         |
| <i>Carrier</i> |         |               |                    |                    |                    |                    |       |                |                |                |                |         |
| Ba Carrier     | 90.2    |               |                    | 30 - 110           |                    |                    |       |                |                | 08/09/23 10:16 | 09/01/23 16:08 | 1       |

**Lab Sample ID:** LCS 160-623459/2-A

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 626379

**Prep Batch:** 623459

| Analyte        | Added | Spike<br>LCS<br>Result | LCS<br>Qual | Total              |                    | RL    | MDC   | Unit | %Rec     | Limits | %Rec | Limits |
|----------------|-------|------------------------|-------------|--------------------|--------------------|-------|-------|------|----------|--------|------|--------|
|                |       |                        |             | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |       |       |      |          |        |      |        |
| Radium-226     | 11.3  | 11.17                  |             | 1.44               | 1.00               | 0.314 | pCi/L | 99   | 75 - 125 |        |      |        |
| <i>Carrier</i> |       |                        |             |                    |                    |       |       |      |          |        |      |        |
| Ba Carrier     | 87.5  |                        | 30 - 110    |                    |                    |       |       |      |          |        |      |        |

**Lab Sample ID:** LCSD 160-623459/3-A

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 626379

**Prep Batch:** 623459

| Analyte        | Added | Spike<br>LCSD<br>Result | LCSD<br>Qual | Total              |                    | RL    | MDC   | Unit | %Rec     | Limits | RER | Limit |
|----------------|-------|-------------------------|--------------|--------------------|--------------------|-------|-------|------|----------|--------|-----|-------|
|                |       |                         |              | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |       |       |      |          |        |     |       |
| Radium-226     | 11.3  | 11.10                   |              | 1.43               | 1.00               | 0.423 | pCi/L | 98   | 75 - 125 | 0.02   | 1   |       |
| <i>Carrier</i> |       |                         |              |                    |                    |       |       |      |          |        |     |       |
| Ba Carrier     | 90.2  |                         | 30 - 110     |                    |                    |       |       |      |          |        |     |       |

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID:** MB 160-623460/1-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 626379

**Prep Batch:** 623460

| Analyte        | Result | MB<br>MB<br>U | Count              |                    | Total              |                    | RL    | MDC            | Unit           | Prepared | Analyzed | Dil Fac |
|----------------|--------|---------------|--------------------|--------------------|--------------------|--------------------|-------|----------------|----------------|----------|----------|---------|
|                |        |               | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) | Uncert.<br>(2σ+/-) |       |                |                |          |          |         |
| Radium-228     | 0.8774 | U             | 0.449              | 0.456              | 1.00               | 0.645              | pCi/L | 08/09/23 10:19 | 09/01/23 11:36 | 1        |          |         |
| <i>Carrier</i> |        |               |                    |                    |                    |                    |       |                |                |          |          |         |
| Ba Carrier     | 90.2   |               | 30 - 110           |                    |                    |                    |       | 08/09/23 10:19 | 09/01/23 11:36 | 1        |          |         |
| Y Carrier      | 85.2   |               | 30 - 110           |                    |                    |                    |       | 08/09/23 10:19 | 09/01/23 11:36 | 1        |          |         |

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# QC Sample Results

Client: Southern Company

Job ID: 680-238497-2

Project/Site: Plant McIntosh - Ash Pond 1

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-623460/2-A**

**Matrix: Water**

**Analysis Batch: 626379**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 623460**

| Analyte    | Spike<br>Added | LCS    |      | Uncert.<br>(2σ+/-) | Total |       | MDC   | Unit  | %Rec | %Rec<br>Limits |
|------------|----------------|--------|------|--------------------|-------|-------|-------|-------|------|----------------|
|            |                | Result | Qual |                    | RL    | pCi/L |       |       |      |                |
| Radium-228 | 7.91           | 9.158  |      | 1.28               | 1.00  |       | 0.524 | pCi/L | 116  | 75 - 125       |

*LCS*   *LCS*

| <i>Carrier</i> | <i>LCS</i> | <i>LCS</i> | <i>Limits</i> |
|----------------|------------|------------|---------------|
|                | %Yield     | Qualifier  |               |
| Ba Carrier     | 87.5       |            | 30 - 110      |
| Y Carrier      | 85.2       |            | 30 - 110      |

**Lab Sample ID: LCSD 160-623460/3-A**

**Matrix: Water**

**Analysis Batch: 626379**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 623460**

| Analyte    | Spike<br>Added | LCSD   |      | Uncert.<br>(2σ+/-) | Total |       | MDC   | Unit  | %Rec | %Rec<br>Limits | RER  | RER<br>Limit |
|------------|----------------|--------|------|--------------------|-------|-------|-------|-------|------|----------------|------|--------------|
|            |                | Result | Qual |                    | RL    | pCi/L |       |       |      |                |      |              |
| Radium-228 | 7.91           | 9.109  |      | 1.26               | 1.00  |       | 0.561 | pCi/L | 115  | 75 - 125       | 0.02 | 1            |

*LCSD*   *LCSD*

| <i>Carrier</i> | <i>LCSD</i> | <i>LCSD</i> | <i>Limits</i> |
|----------------|-------------|-------------|---------------|
|                | %Yield      | Qualifier   |               |
| Ba Carrier     | 90.2        |             | 30 - 110      |
| Y Carrier      | 86.4        |             | 30 - 110      |

# QC Association Summary

Client: Southern Company

Job ID: 680-238497-2

Project/Site: Plant McIntosh - Ash Pond 1

**Rad**

**Prep Batch: 623459**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method     | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 680-238497-1        | MCI-MGWA-10            | Total/NA  | Water  | PrecSep-21 | 1          |
| 680-238497-2        | MCI-MGWA-11            | Total/NA  | Water  | PrecSep-21 | 2          |
| 680-238497-3        | MCI-MGWA-5             | Total/NA  | Water  | PrecSep-21 | 3          |
| 680-238497-4        | MCI-MGWA-6             | Total/NA  | Water  | PrecSep-21 | 4          |
| 680-238497-5        | MCI-MGWA-6A            | Total/NA  | Water  | PrecSep-21 | 5          |
| 680-238497-6        | MCI-MGWC-1             | Total/NA  | Water  | PrecSep-21 | 6          |
| 680-238497-7        | MCI-MGWC-2             | Total/NA  | Water  | PrecSep-21 | 7          |
| 680-238497-8        | MCI-MGWC-3             | Total/NA  | Water  | PrecSep-21 | 8          |
| 680-238497-9        | MCI-MGWC-7             | Total/NA  | Water  | PrecSep-21 | 9          |
| 680-238497-10       | MCI-MGWC-8             | Total/NA  | Water  | PrecSep-21 | 10         |
| 680-238497-11       | MCI-MGWC-12            | Total/NA  | Water  | PrecSep-21 | 11         |
| 680-238497-12       | MCI-AP1-FD-01          | Total/NA  | Water  | PrecSep-21 | 12         |
| 680-238497-13       | MCI-AP1-FD-02          | Total/NA  | Water  | PrecSep-21 | 13         |
| 680-238497-14       | MCI-AP1-FB-01          | Total/NA  | Water  | PrecSep-21 |            |
| 680-238497-15       | MCI-AP1-FB-02          | Total/NA  | Water  | PrecSep-21 |            |
| 680-238497-16       | MCI-AP1-EB-03          | Total/NA  | Water  | PrecSep-21 |            |
| 680-238497-17       | MCI-AP1-EB-04          | Total/NA  | Water  | PrecSep-21 |            |
| MB 160-623459/1-A   | Method Blank           | Total/NA  | Water  | PrecSep-21 |            |
| LCS 160-623459/2-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep-21 |            |
| LCSD 160-623459/3-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep-21 |            |

**Prep Batch: 623460**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 680-238497-1        | MCI-MGWA-10            | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-2        | MCI-MGWA-11            | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-3        | MCI-MGWA-5             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-4        | MCI-MGWA-6             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-5        | MCI-MGWA-6A            | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-6        | MCI-MGWC-1             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-7        | MCI-MGWC-2             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-8        | MCI-MGWC-3             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-9        | MCI-MGWC-7             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-10       | MCI-MGWC-8             | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-11       | MCI-MGWC-12            | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-12       | MCI-AP1-FD-01          | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-13       | MCI-AP1-FD-02          | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-14       | MCI-AP1-FB-01          | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-15       | MCI-AP1-FB-02          | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-16       | MCI-AP1-EB-03          | Total/NA  | Water  | PrecSep_0 |            |
| 680-238497-17       | MCI-AP1-EB-04          | Total/NA  | Water  | PrecSep_0 |            |
| MB 160-623460/1-A   | Method Blank           | Total/NA  | Water  | PrecSep_0 |            |
| LCS 160-623460/2-A  | Lab Control Sample     | Total/NA  | Water  | PrecSep_0 |            |
| LCSD 160-623460/3-A | Lab Control Sample Dup | Total/NA  | Water  | PrecSep_0 |            |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

## Client Sample ID: MCI-MGWA-10

Date Collected: 08/01/23 10:54

Date Received: 08/02/23 13:55

## Lab Sample ID: 680-238497-1

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 930.90 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:09       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 930.90 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:36       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-MGWA-11

Date Collected: 08/01/23 12:20

Date Received: 08/02/23 13:55

## Lab Sample ID: 680-238497-2

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 930.08 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:09       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 930.08 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-MGWA-5

Date Collected: 08/01/23 13:20

Date Received: 08/02/23 13:55

## Lab Sample ID: 680-238497-3

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 925.63 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:09       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 925.63 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

## Client Sample ID: MCI-MGWA-6

Date Collected: 08/01/23 11:50

Date Received: 08/02/23 13:55

## Lab Sample ID: 680-238497-4

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 920.14 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |

Eurofins Savannah

## Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

### Client Sample ID: MCI-MGWA-6

Date Collected: 08/01/23 11:50

Date Received: 08/02/23 13:55

### Lab Sample ID: 680-238497-4

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep_0              |     |            | 920.14 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

### Client Sample ID: MCI-MGWA-6A

Date Collected: 08/01/23 10:40

Date Received: 08/02/23 13:55

### Lab Sample ID: 680-238497-5

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 940.80 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 940.80 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

### Client Sample ID: MCI-MGWC-1

Date Collected: 08/01/23 14:04

Date Received: 08/02/23 13:55

### Lab Sample ID: 680-238497-6

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 945.00 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 945.00 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

### Client Sample ID: MCI-MGWC-2

Date Collected: 08/02/23 10:24

Date Received: 08/02/23 13:55

### Lab Sample ID: 680-238497-7

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 998.77 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 998.77 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

## **Client Sample ID: MCI-MGWC-2**

Date Collected: 08/02/23 10:24

Date Received: 08/02/23 13:55

## **Lab Sample ID: 680-238497-7**

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |

## **Client Sample ID: MCI-MGWC-3**

Date Collected: 08/01/23 14:43

Date Received: 08/02/23 13:55

## **Lab Sample ID: 680-238497-8**

Matrix: Water

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21             |     |            | 938.90 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                   |     | 1          |                |              | 626379       | 09/01/23 16:11       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0              |     |            | 938.90 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                   |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228            |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWC-7**

Date Collected: 08/02/23 10:21

Date Received: 08/02/23 13:55

## **Lab Sample ID: 680-238497-9**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 962.03 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 962.03 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626379       | 09/01/23 11:39       | FLC     | EET SL |
|           |            | Instrument ID: GFPCRED  |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-MGWC-8**

Date Collected: 08/01/23 15:44

Date Received: 08/02/23 13:55

## **Lab Sample ID: 680-238497-10**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 936.01 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 936.01 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626386       | 09/01/23 11:45       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

## **Client Sample ID: MCI-MGWC-12**

Date Collected: 08/02/23 11:45

Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-11**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 980.74 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 980.74 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626386       | 09/01/23 11:45       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 14:06       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-AP1-FD-01**

Date Collected: 08/01/23 00:00

Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-12**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 991.98 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 991.98 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626386       | 09/01/23 11:45       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 15:41       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-AP1-FD-02**

Date Collected: 08/01/23 00:00

Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-13**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 929.93 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 929.93 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626386       | 09/01/23 11:44       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 15:41       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

## **Client Sample ID: MCI-AP1-FB-01**

Date Collected: 08/02/23 10:45

Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-14**

Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 944.43 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-AP1-FB-01**  
Date Collected: 08/02/23 10:45  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-14**  
Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep_0               |     |            | 944.43 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626386       | 09/01/23 11:44       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 15:41       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

**Client Sample ID: MCI-AP1-FB-02**  
Date Collected: 08/02/23 11:05  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-15**  
Matrix: Water

| Prep Type | Batch Type | Batch Method            | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|-------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21              |     |            | 923.82 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                    |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0               |     |            | 923.82 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                    |     | 1          |                |              | 626386       | 09/01/23 11:44       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228             |     | 1          |                |              | 626553       | 09/07/23 15:41       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP  |     |            |                |              |              |                      |         |        |

**Client Sample ID: MCI-AP1-EB-03**  
Date Collected: 08/01/23 13:10  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-16**  
Matrix: Water

| Prep Type | Batch Type | Batch Method              | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|---------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21                |     |            | 993.91 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                      |     | 1          |                |              | 626386       | 09/01/23 16:16       | FLC     | EET SL |
|           |            | Instrument ID: GFPCBLUE   |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0                 |     |            | 993.91 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                      |     | 1          |                |              | 626387       | 09/01/23 11:42       | FLC     | EET SL |
|           |            | Instrument ID: GFPCPURPLE |     |            |                |              |              |                      |         |        |
| Total/NA  | Analysis   | Ra226_Ra228               |     | 1          |                |              | 626553       | 09/07/23 15:41       | EMH     | EET SL |
|           |            | Instrument ID: NOEQUIP    |     |            |                |              |              |                      |         |        |

**Client Sample ID: MCI-AP1-EB-04**  
Date Collected: 08/02/23 10:35  
Date Received: 08/02/23 13:55

**Lab Sample ID: 680-238497-17**  
Matrix: Water

| Prep Type | Batch Type | Batch Method              | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|---------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Prep       | PrecSep-21                |     |            | 998.80 mL      | 1.0 g        | 623459       | 08/09/23 10:16       | KAC     | EET SL |
| Total/NA  | Analysis   | 9315                      |     | 1          |                |              | 626387       | 09/01/23 16:23       | FLC     | EET SL |
|           |            | Instrument ID: GFPCPURPLE |     |            |                |              |              |                      |         |        |
| Total/NA  | Prep       | PrecSep_0                 |     |            | 998.80 mL      | 1.0 g        | 623460       | 08/09/23 10:19       | KAC     | EET SL |
| Total/NA  | Analysis   | 9320                      |     | 1          |                |              | 626387       | 09/01/23 11:41       | FLC     | EET SL |
|           |            | Instrument ID: GFPCPURPLE |     |            |                |              |              |                      |         |        |

Eurofins Savannah

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

**Client Sample ID: MCI-AP1-EB-04**  
**Date Collected: 08/02/23 10:35**  
**Date Received: 08/02/23 13:55**

**Lab Sample ID: 680-238497-17**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab    |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA  | Analysis   | Ra226_Ra228  |     | 1          |                |              | 626553       | 09/07/23 15:41       | EMH     | EET SL |

**Laboratory References:**

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

## Accreditation/Certification Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

### Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Florida   | NELAP   | E87689                | 06-30-24        |

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## Method Summary

Client: Southern Company

Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-238497-2

| Method      | Method Description                                     | Protocol | Laboratory |
|-------------|--|----------|------------|
| 9315        | Radium-226 (GFPC)                                      | SW846    | EET SL     |
| 9320        | Radium-228 (GFPC)                                      | SW846    | EET SL     |
| Ra226_Ra228 | Combined Radium-226 and Radium-228                     | TAL-STL  | EET SL     |
| PrecSep_0   | Preparation, Precipitate Separation                    | None     | EET SL     |
| PrecSep-21  | Preparation, Precipitate Separation (21-Day In-Growth) | None     | EET SL     |

### Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

### Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



## Chain of Custody Record

|  |  |   |  |                                       |  |   |   |   |  |                            |  |
|--|--|---|--|---------------------------------------|--|---|---|---|--|----------------------------|--|
| <b>Client Information</b>  |  | Sampler<br><i>T. Gable/H. Avid</i><br>ACC | Lab PM<br>Fuller David                   | Carrier Tracking No(s)                |  | COC No  |   |   |  |                            |  |
| Client Contact:<br>SCS Contacts  |  | Phone<br>770-594-5998                     | E-Mail<br>david.fuller@et.eurofinsus.com |                                       |  | Page  | 2 of 2  |   |  |                            |  |
| Company<br>GA Power  |  | Analysis Requested                        |  |                                       |  |   | Job #:  |   |  |                            |  |
| Address<br>241 Ralph McGill Blvd SE  |  | Due Date Requested                        |  |                                       |  |   | Preservation Codes  |   |  |                            |  |
| City<br>Atlanta  |  | TAT Requested (days)                      |  |                                       |  |   | A HCL M - Hexane<br>B NaOH N - None<br>C Zn Acetate O AsNaO2<br>D Nitric Acid P Na2O4S<br>E NaHSO4 Q Na2SO3<br>F MeOH R Na2S2O3<br>G Amchlor S H2SO4<br>H Ascorbic Acid T TSP Dodecahydrate<br>I Ice U Acetone<br>J DI Water V MCAA<br>K EDTA W pH 4-5<br>L EDA Z other (specify)<br>Other: |   |  |                            |  |
| State Zip:<br>GA, 30308  |  | Lab Project #<br>68027747                 |  |                                       |  |   |   |   |  |                            |  |
| Phone<br>404-506-7116(Tel)   |  | PO #:                                     |  |                                       |  |   |   |   |  |                            |  |
| Email<br>SCS Contacts / ACC Contacts   |  |   |  |                                       |  |   |   |   |  |                            |  |
| Project Name<br>Plant McIntosh - Ash Pond 1  |  | Project #:                                |  |                                       |  |   |   |   |  |                            |  |
| Site<br>Georgia  |  | SSOW#:                                    |  |                                       |  |   |   |   |  |                            |  |
| Sample Identification  |  | Sample Date<br>(mm/dd/yy)                 | Sample<br>Time<br>(hhmm)                 | Sample<br>Type<br>(C=Comp,<br>G=grab) | Matrix<br>(WG=ground<br>water WS=surface<br>water WQ=quality<br>control) | Field Filtered Sample (Yes or No)<br>Perform MS/MSD (Yes or No)   | App. III Metals (B, Ca)<br>Cl, F, SO <sub>4</sub> , TDS<br>(EPA 3000 & SM 2540C)  | App. IV Metals<br>(Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti)<br>(EPA 6020/7470) | Radium 226 & 228<br>(SW-846 3315/9320) | Total Number of containers |  |
| MCI- API-FD-01   |  | 08/01/23                                  | —  | G <i>WQ</i>                           | N N  | / /   | /   | /   | 13                                     |                            |  |
| MCI- API-FD-02   |  | 08/01/23                                  | —  | G <i>WQ</i>                           | N N  | / /   | /   | /   | 5                                      |                            |  |
| MCI- API-FB-01   |  | 08/02/23                                  | 1045                                     | G <i>WQ</i>                           | N N  | / /   | /   | /   | 5                                      |                            |  |
| MCI- API-FB-02   |  | 08/02/23                                  | 1105                                     | G <i>WQ</i>                           | N N  | / /   | /   | /   | 5                                      |                            |  |
| MCI- API-EB-03   |  | 08/01/23                                  | 1310                                     | G <i>WQ</i>                           | N N  | / /   | /   | /   | 5                                      |                            |  |
| MCI- API-EB-04   |  | 08/02/23                                  | 1035                                     | G <i>WQ</i>                           | N N  | / /   | /   | /   | 5                                      |                            |  |
| MCI-   |  |   |  | G                                     | N  |   |   |   |  |                            |  |
| MCI-   |  |   |  | G                                     | N  |   |   |   |  |                            |  |
| MCI-   |  |   |  | G                                     | N  |   |   |   |  |                            |  |
| MCI-   |  |   |  | G                                     | N  |   |   |   |  |                            |  |
| MCI-   |  |   |  | G                                     | N  |   |   |   |  |                            |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  |   |  |                                       |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |   |   |  |                            |  |
| Deliverable Requested I, II, III, IV, Other (specify)  |  |   |  |                                       |  | Special Instructions/QC Requirements  |   |   |  |                            |  |
| Empty Kit Relinquished by  |  | Date                                      | Time                                     |                                       | Method of Shipment:  |   |   |   |  |                            |  |
| Relinquished by <i>H. Avid</i>   |  | Date/Time<br>8-2-23 / 1355                | Company<br>ACC                           |                                       | Received by  |   |   | Date/Time   |  | Company                    |  |
| Relinquished by  |  | Date/Time                                 | Company                                  |                                       | Received by  |   |   | Date/Time   |  | Company                    |  |
| Relinquished by  |  | Date/Time                                 | Company                                  |                                       | Received by <i>C. Morris</i>   |   |   | Date/Time<br>8/2/23 1355  |  | Company<br>Eurofins        |  |
| Custody Seals Intact<br>△ Yes △ No   |  | Custody Seal No                           |  |                                       |  |   | Cooler Temperature(s) °C and Other Remarks  |   |  |                            |  |



## Chain of Custody Record

Environment Testing

Environment Testing

Note: Since laboratory accreditation are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/technicians being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I. II. III. IV. Other (specify)

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Environment Testing

## Chain of Custody Record

5102 LaBoche Avenue

5102 LaRoche Avenue  
Savannah, GA 31404  
Phone: 912-354-7858 Fax: 912-35

Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analytic & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

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Deliverable Requested: I, II, III, IV, C

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emitted by.

Δ Yes Δ No

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-238497-2

**Login Number:** 238497

**List Source:** Eurofins Savannah

**List Number:** 1

**Creator:** Padayao, Abigail

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

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-238497-2

**Login Number:** 238497

**List Source:** Eurofins St. Louis

**List Number:** 2

**List Creation:** 08/08/23 01:26 PM

**Creator:** Sharkey-Gonzalez, Briana L

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

Plant McIntosh Ash Pond 1  
2023 Annual Groundwater Monitoring and Corrective Action Report

**LEVEL 2A LABORATORY DATA VALIDATIONS**

**McIntosh Ash Pond 1**

**Annual Event**

**July 2023**

## **Georgia Power Company – McIntosh Ash Pond 1**

### **Quality Control Review of Analytical Data – July 2023**

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah and St. Louis for groundwater samples collected at McIntosh Ash Pond 1 (AP1) between August 1, 2023 and August 2, 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 of this Appendix. SDG 680-238497-1 was revised to correct errant blank results found during data quality review and reanalysis.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III, and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B), Mercury in Liquid Wastes (US EPA Method 7470A), Determination of Inorganic Anions (US EPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (US EPA Method 9315), and Radium-228 (US EPA Method 9320).

Data were reviewed in accordance with the US EPA Region 4 Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)<sup>1</sup> and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)<sup>2</sup>. The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

## DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, except for total dissolved solids (TDS) from MCI-MGWA-6A (680-238497-5) and MCI-MGWC-2 (680-238497-7) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, except for lithium and combined radium 226+228 from MCI-MGWC-8 (680-238497-10) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met, except for sulfate from MCI-MGWC-7 (680-238497-9) as described in the qualifications section below.
- Detection Limits:** Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

## QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low 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 validation process:

- B:** The analyte was positively identified above the method detection limit; however, the analyte was also detected in a method blank, field blank, and/or equipment blank.
- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ND:** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples MCI-MGWA-6A (680-238497-5) and MCI-MGWC-2 (680-238497-7) were qualified as estimated (J) for TDS as the laboratory relative percent differences (RPDs) exceeded QC criteria (21% and 7%, respectively, above the limit of 5).
- Samples MCI-MGWC-8 (680-238497-10) and MCI-AP1-FD-01 (680-238497-12) were qualified as estimated (J) for lithium as the field RPD exceeded QC criteria (23.3% above the limit of 20).
- Samples MCI-MGWC-8 (680-238497-10) and MCI-AP1-FD-01 (680-238497-12) were qualified as estimated (J) for combined radium 226+228 as the field RPD exceeded QC criteria (67.5% above the limit of 20).
- Sample MCI-MGWC-7 (680-238497-9) was qualified as estimated (J) for sulfate as the associated matrix spike (MS) recovery was outside QC criteria (76%, below the range of 80-120).
- Certain boron results on work order 680-238497-1 were qualified as non-detect (ND) due to the analytes being detected at similar concentrations in an associated blank sample. As shown in Table 2, when the original sample result was within the same order of magnitude as the method detection limit (MDL), the new MDL was raised to the sample result as part of the qualification process. When the original sample result was well above the RL, the sample result was qualified as estimated (J) as part of the qualification process.
- Certain fluoride results on work order 680-238497-1 were qualified as blank detections (B) due to the analytes being detected in field and/or equipment blank samples, as shown in Table 2.
- Certain combined radium 226+228 results on work order 680-238497-2 were qualified as non-detect (ND) due to the analytes being detected at similar concentrations in an associated blank sample. As shown in Table 2, when the original sample result was below the RL, the new minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process; when the original sample result was

Plant McIntosh Ash Pond 1  
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slightly above the RL, the new RL was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP1 sampled between August 1, 2023 and August 2, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

## **REFERENCES**

<sup>1</sup>US EPA, 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

<sup>2</sup>US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

Plant McIntosh Ash Pond 1  
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TABLE 1  
Georgia Power Company – McIntosh AP1  
Sample Summary Table – July 2023

| SDG      | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples      | Analyses              |                |                |                              |
|----------|----------------------|-----------------|--------------------|--------|-----------------|-----------------------|----------------|----------------|------------------------------|
|          |                      |                 |                    |        |                 | Metals (6020B, 7470A) | Anions (300.0) | TDS (SM 2540C) | Radium-226/-228 (9315, 9320) |
| 238497-1 | MCI-MGWA-10          | 08/01/23        | 680-238497-1       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWA-10          | 08/01/23        | 680-238497-1       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWA-11          | 08/01/23        | 680-238497-2       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWA-11          | 08/01/23        | 680-238497-2       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWA-5           | 08/01/23        | 680-238497-3       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWA-5           | 08/01/23        | 680-238497-3       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWA-6           | 08/01/23        | 680-238497-4       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWA-6           | 08/01/23        | 680-238497-4       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWA-6A          | 08/01/23        | 680-238497-5       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWA-6A          | 08/01/23        | 680-238497-5       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWC-1           | 08/01/23        | 680-238497-6       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWC-1           | 08/01/23        | 680-238497-6       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWC-2           | 08/02/23        | 680-238497-7       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWC-2           | 08/02/23        | 680-238497-7       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWC-3           | 08/01/23        | 680-238497-8       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWC-3           | 08/01/23        | 680-238497-8       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWC-7           | 08/02/23        | 680-238497-9       | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWC-7           | 08/02/23        | 680-238497-9       | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWC-8           | 08/01/23        | 680-238497-10      | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWC-8           | 08/01/23        | 680-238497-10      | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-MGWC-12          | 08/02/23        | 680-238497-11      | WG     |                 | X                     | X              | X              |                              |
| 238497-2 | MCI-MGWC-12          | 08/02/23        | 680-238497-11      | WG     |                 |                       |                |                | X                            |
| 238497-1 | MCI-AP1-FD-01        | 08/01/23        | 680-238497-12      | WG     | FD (MCI-MGWC-8) | X                     | X              | X              |                              |
| 238497-2 | MCI-AP1-FD-01        | 08/01/23        | 680-238497-12      | WG     | FD (MCI-MGWC-8) |                       |                |                | X                            |
| 238497-1 | MCI-AP1-FD-02        | 08/01/23        | 680-238497-13      | WG     | FD (MCI-MGWC-3) | X                     | X              | X              |                              |
| 238497-2 | MCI-AP1-FD-02        | 08/01/23        | 680-238497-13      | WG     | FD (MCI-MGWC-3) |                       |                |                | X                            |

Abbreviations:

EB – Equipment Blank  
FB – Field Blank  
FD – Field Duplicate  
QC – Quality Control  
SDG – Sample Delivery Group  
TDS – Total Dissolved Solids  
WG – Groundwater  
WQ – Water Quality Control

Plant McIntosh Ash Pond 1  
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TABLE 1 (continued)

Georgia Power Company – McIntosh AP1

Sample Summary Table – July 2023

| SDG      | Field Identification | Collection Date | Lab Identification | Matrix | QC Samples | Analyses              |                |                |                              |
|----------|----------------------|-----------------|--------------------|--------|------------|-----------------------|----------------|----------------|------------------------------|
|          |                      |                 |                    |        |            | Metals (6020B, 7470A) | Anions (300.0) | TDS (SM 2540C) | Radium-226/-228 (9315, 9320) |
| 238497-1 | MCI-AP1-FB-01        | 08/02/23        | 680-238497-14      | WQ     | FB         | X                     | X              | X              |                              |
| 238497-2 | MCI-AP1-FB-01        | 08/02/23        | 680-238497-14      | WQ     | FB         |                       |                |                | X                            |
| 238497-1 | MCI-AP1-FB-02        | 08/02/23        | 680-238497-15      | WQ     | FB         | X                     | X              | X              |                              |
| 238497-2 | MCI-AP1-FB-02        | 08/02/23        | 680-238497-15      | WQ     | FB         |                       |                |                | X                            |
| 238497-1 | MCI-AP1-EB-03        | 08/01/23        | 680-238497-16      | WQ     | EB         | X                     | X              | X              |                              |
| 238497-2 | MCI-AP1-EB-03        | 08/01/23        | 680-238497-16      | WQ     | EB         |                       |                |                | X                            |
| 238497-1 | MCI-AP1-EB-04        | 08/02/23        | 680-238497-17      | WQ     | EB         | X                     | X              | X              |                              |
| 238497-2 | MCI-AP1-EB-04        | 08/02/23        | 680-238497-17      | WQ     | EB         |                       |                |                | X                            |

Abbreviations:

- EB – Equipment Blank
- FB – Field Blank
- FD – Field Duplicate
- QC – Quality Control
- SDG – Sample Delivery Group
- TDS – Total Dissolved Solids
- WG – Groundwater
- WQ – Water Quality Control

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TABLE 2  
Georgia Power Company – McIntosh AP1  
Qualifier Summary Table – July 2023

| SDG      | Field Identification | Constituent      | New RL | New MDL or MDC | Qualifier | Reason                  |
|----------|----------------------|------------------|--------|----------------|-----------|-------------------------|
| 238497-1 | MCI-MGWA-10          | Boron            |        | 0.035          | ND        | Blank detection         |
| 238497-1 | MCI-MGWA-11          | Boron            |        | 0.045          | ND        | Blank detection         |
| 238497-1 | MCI-MGWC-3           | Boron            |        |                | J         | Blank detection         |
| 238497-1 | MCI-MGWC-8           | Boron            |        |                | J         | Blank detection         |
| 238497-1 | MCI-MGWC-12          | Boron            |        | 0.062          | ND        | Blank detection         |
| 238497-1 | MCI-AP1-FB-01        | Fluoride         |        |                | B         | Blank detection         |
| 238497-1 | MCI-AP1-FB-02        | Fluoride         |        |                | B         | Blank detection         |
| 238497-1 | MCI-AP1-EB-03        | Fluoride         |        |                | B         | Blank detection         |
| 238497-1 | MCI-MGWC-8           | Lithium          |        |                | J         | RPD exceeds field goal  |
| 238497-1 | MCI-AP1-FD-01        | Lithium          |        |                | J         | RPD exceeds field goal  |
| 238497-2 | MCI-MGWC-8           | Radium, combined |        |                | J         | RPD exceeds field goal  |
| 238497-2 | MCI-AP1-FD-01        | Radium, combined |        |                | J         | RPD exceeds field goal  |
| 238497-1 | MCI-MGWA-6A          | TDS              |        |                | J         | RPD exceeds lab goal    |
| 238497-1 | MCI-MGWC-2           | TDS              |        |                | J         | RPD exceeds lab goal    |
| 238497-1 | MCI-MGWC-7           | Sulfate          |        |                | J         | MS outside QC criterion |
| 238497-2 | MCI-MGWA-5           | Radium-228       |        | 0.927          | ND        | Blank detection         |
| 238497-2 | MCI-MGWA-6           | Radium-228       | 1.01   |                | ND        | Blank detection         |
| 238497-2 | MCI-MGWA-6A          | Radium-228       |        | 0.929          | ND        | Blank detection         |
| 238497-2 | MCI-MGWC-1           | Radium-228       |        | 0.601          | ND        | Blank detection         |
| 238497-2 | MCI-MGWC-2           | Radium-228       |        | 0.997          | ND        | Blank detection         |
| 238497-2 | MCI-MGWC-3           | Radium-228       | 1.02   |                | ND        | Blank detection         |

Abbreviations:

MDC – Minimum Detectable Concentration  
MS/MSD – Matrix Spike / Matrix Spike Duplicate  
MDL – Method Detection Limit  
RL – Reporting Limit  
RPD – Relative Percent Difference  
SDG – Sample Delivery Group  
TDS – Total Dissolved Solids

Qualifiers:

B – Field or Equipment Blank Detection  
J – Estimated Result  
ND – Non-Detect Result

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 1:34:08 PM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWC-1<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 46.08 ft<br><b>Total Depth:</b> 56.08 ft<br><b>Initial Depth to Water:</b> 40.6 ft | <b>Pump Type:</b> Portable Bladder Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 51 ft<br><b>Estimated Total Volume Pumped:</b><br>6750 ml<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 225 ml/min<br><b>Final Draw Down:</b> 1.5 ft | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 989619 |
|--|---|--|

## Test Notes:

Sampled at 1404. Partly cloudy 89 degrees

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 25  | +/- 0.3        |               |
| 8/1/2023 1:34 PM | 00:00        | 7.37 pH | 34.29 °C    | 442.37 µS/cm          | 3.45 mg/L         | 17.90 NTU | 62.0 mV | 41.15 ft       | 225.00 ml/min |
| 8/1/2023 1:39 PM | 05:00        | 7.31 pH | 25.34 °C    | 500.07 µS/cm          | 2.54 mg/L         | 15.70 NTU | 44.8 mV | 41.75 ft       | 225.00 ml/min |
| 8/1/2023 1:44 PM | 10:00        | 7.29 pH | 24.69 °C    | 551.68 µS/cm          | 1.60 mg/L         | 10.70 NTU | 43.2 mV | 41.93 ft       | 225.00 ml/min |
| 8/1/2023 1:49 PM | 15:00        | 7.29 pH | 24.35 °C    | 576.51 µS/cm          | 0.89 mg/L         | 8.05 NTU  | 40.9 mV | 42.05 ft       | 225.00 ml/min |
| 8/1/2023 1:54 PM | 20:00        | 7.29 pH | 24.41 °C    | 589.77 µS/cm          | 0.59 mg/L         | 3.38 NTU  | 39.2 mV | 42.10 ft       | 225.00 ml/min |
| 8/1/2023 1:59 PM | 25:00        | 7.30 pH | 24.35 °C    | 594.26 µS/cm          | 0.41 mg/L         | 1.49 NTU  | 38.1 mV | 42.10 ft       | 225.00 ml/min |
| 8/1/2023 2:04 PM | 30:00        | 7.30 pH | 23.92 °C    | 597.33 µS/cm          | 0.32 mg/L         | 1.33 NTU  | 37.1 mV | 42.10 ft       | 225.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 8/2/2023 9:54:39 AM

Project: Plant McIntosh AP-1

Operator Name: H. Auld

|   |   |  |
|---|---|--|
| <b>Location Name:</b> MGWC-2<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 27.36 ft<br><b>Total Depth:</b> 37.36 ft<br><b>Initial Depth to Water:</b> 22.87 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 32.3 ft<br><b>Estimated Total Volume Pumped:</b><br>6 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 200 ml/min<br><b>Final Draw Down:</b> 17.16 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884189 |
|---|---|--|

## Test Notes:

Sample time 1024. Partly cloudy 80s. MCI-AP1-EB-04 here at 1035.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300  | +/- 10         |               |
| 8/2/2023 9:54 AM  | 00:00        | 5.01 pH | 30.43 °C    | 11.64 µS/cm           | 7.55 mg/L         | 5.00 NTU  | 245.7 mV | 22.87 ft       | 200.00 ml/min |
| 8/2/2023 9:59 AM  | 05:00        | 6.64 pH | 24.53 °C    | 696.66 µS/cm          | 0.73 mg/L         | 2.10 NTU  | 103.0 mV | 23.80 ft       | 220.00 ml/min |
| 8/2/2023 10:04 AM | 10:00        | 7.05 pH | 22.58 °C    | 701.22 µS/cm          | 0.49 mg/L         | 2.40 NTU  | 67.3 mV  | 24.20 ft       | 220.00 ml/min |
| 8/2/2023 10:09 AM | 15:00        | 7.18 pH | 22.74 °C    | 709.08 µS/cm          | 0.38 mg/L         | 1.02 NTU  | 51.7 mV  | 24.30 ft       | 200.00 ml/min |
| 8/2/2023 10:14 AM | 20:00        | 7.25 pH | 22.96 °C    | 702.91 µS/cm          | 0.37 mg/L         | 0.93 NTU  | 38.8 mV  | 24.30 ft       | 200.00 ml/min |
| 8/2/2023 10:19 AM | 25:00        | 7.29 pH | 22.98 °C    | 703.84 µS/cm          | 0.30 mg/L         | 0.54 NTU  | 25.2 mV  | 24.30 ft       | 200.00 ml/min |
| 8/2/2023 10:24 AM | 30:00        | 7.31 pH | 23.24 °C    | 704.52 µS/cm          | 0.30 mg/L         | 0.70 NTU  | 12.3 mV  | 24.30 ft       | 200.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 2:14:52 PM

Project: Plant McIntosh AP-1

Operator Name: H. Auld

|   |   |  |
|---|---|--|
| Location Name: MGWC-3<br>Well Diameter: 2 ft<br>Casing Type: PVC<br>Screen Length: 10 ft<br>Top of Screen: 28.7 ft<br>Total Depth: 38.74 ft<br>Initial Depth to Water: 21.62 ft | Pump Type: Peri Pump<br>Tubing Type: Poly<br>Pump Intake From TOC: 33.7 ft<br>Estimated Total Volume Pumped: 5.8 liter<br>Flow Cell Volume: 90 ml<br>Final Flow Rate: 200 ml/min<br>Final Draw Down: 5.8 in | Instrument Used: Aqua TROLL 400<br>Serial Number: 884189 |
|---|---|--|

## Test Notes:

Sampled at 1443 on 8-1-23. Sunny, 80s. FD-02 taken here.

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300 | +/- 10         |               |
| 8/1/2023 2:14 PM | 00:00        | 7.33 pH | 47.50 °C    | 0.10 µS/cm            | 5.50 mg/L         | 5.00 NTU  | 85.3 mV | 21.62 ft       | 175.00 ml/min |
| 8/1/2023 2:19 PM | 05:00        | 7.24 pH | 24.67 °C    | 577.08 µS/cm          | 0.44 mg/L         | 1.70 NTU  | 70.8 mV | 22.00 ft       | 200.00 ml/min |
| 8/1/2023 2:24 PM | 10:00        | 7.16 pH | 22.83 °C    | 598.66 µS/cm          | 0.35 mg/L         | 1.50 NTU  | 70.2 mV | 22.10 ft       | 200.00 ml/min |
| 8/1/2023 2:29 PM | 15:00        | 7.13 pH | 22.58 °C    | 600.27 µS/cm          | 0.29 mg/L         | 0.80 NTU  | 70.1 mV | 22.10 ft       | 200.00 ml/min |
| 8/1/2023 2:34 PM | 20:00        | 7.11 pH | 22.50 °C    | 606.36 µS/cm          | 0.26 mg/L         | 0.60 NTU  | 69.0 mV | 22.10 ft       | 200.00 ml/min |
| 8/1/2023 2:39 PM | 25:00        | 7.09 pH | 22.55 °C    | 608.64 µS/cm          | 0.22 mg/L         | 0.90 NTU  | 68.2 mV | 22.10 ft       | 200.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|            |              |

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 12:47:25 PM

Project: Plant McIntosh AP-1

Operator Name: H. Auld

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWA-5<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 53.1 ft<br><b>Total Depth:</b> 63.09 ft<br><b>Initial Depth to Water:</b> 25.85 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 58.1 ft<br><b>Estimated Total Volume Pumped:</b><br>4.4 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 130 ml/min<br><b>Final Draw Down:</b> 4.4 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884189 |
|--|---|--|

## Test Notes:

Sampled at 1320 on 8-1-23. Sunny, 80s.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP       | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300   | +/- 10         |               |
| 8/1/2023 12:47 PM | 00:00        | 7.88 pH | 44.68 °C    | 0.25 µS/cm            | 5.70 mg/L         | 5.00 NTU  | 101.6 mV  | 25.85 ft       | 175.00 ml/min |
| 8/1/2023 12:52 PM | 05:00        | 7.72 pH | 28.55 °C    | 239.40 µS/cm          | 1.14 mg/L         | 11.00 NTU | -85.7 mV  | 26.40 ft       | 175.00 ml/min |
| 8/1/2023 12:57 PM | 10:00        | 7.60 pH | 26.21 °C    | 244.32 µS/cm          | 0.46 mg/L         | 7.30 NTU  | -111.8 mV | 26.70 ft       | 130.00 ml/min |
| 8/1/2023 1:02 PM  | 15:00        | 7.55 pH | 26.24 °C    | 246.71 µS/cm          | 0.37 mg/L         | 7.80 NTU  | -99.6 mV  | 26.70 ft       | 130.00 ml/min |
| 8/1/2023 1:07 PM  | 20:00        | 7.53 pH | 26.30 °C    | 246.81 µS/cm          | 0.28 mg/L         | 6.10 NTU  | -101.3 mV | 26.70 ft       | 130.00 ml/min |
| 8/1/2023 1:12 PM  | 25:00        | 7.52 pH | 26.57 °C    | 245.39 µS/cm          | 0.28 mg/L         | 4.70 NTU  | -102.2 mV | 26.70 ft       | 130.00 ml/min |
| 8/1/2023 1:17 PM  | 30:00        | 7.52 pH | 26.70 °C    | 244.49 µS/cm          | 0.30 mg/L         | 4.10 NTU  | -118.7 mV | 26.70 ft       | 130.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 11:10:32 AM

Project: Plant McIntosh AP-1

Operator Name: H. Auld

|   |  |  |
|---|--|--|
| <b>Location Name:</b> MGWA-6<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 31.93 ft<br><b>Total Depth:</b> 41.93 ft<br><b>Initial Depth to Water:</b> 24.82 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 36.9 ft<br><b>Estimated Total Volume Pumped:</b><br>6 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 150 ml/min<br><b>Final Draw Down:</b> 2.16 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884189 |
|---|--|--|

## Test Notes:

Sampled at 1150 on 8-1-23. Sunny, 80s.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP     | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300 | +/- 10         |               |
| 8/1/2023 11:10 AM | 00:00        | 7.67 pH | 41.24 °C    | 0.19 µS/cm            | 6.10 mg/L         | 5.00 NTU  | 73.4 mV | 24.82 ft       | 150.00 ml/min |
| 8/1/2023 11:15 AM | 05:00        | 7.24 pH | 27.10 °C    | 492.52 µS/cm          | 1.61 mg/L         | 18.30 NTU | 31.7 mV | 25.00 ft       | 150.00 ml/min |
| 8/1/2023 11:20 AM | 10:00        | 7.20 pH | 25.49 °C    | 506.47 µS/cm          | 1.61 mg/L         | 7.80 NTU  | 41.5 mV | 25.00 ft       | 150.00 ml/min |
| 8/1/2023 11:25 AM | 15:00        | 7.18 pH | 25.24 °C    | 507.03 µS/cm          | 1.54 mg/L         | 5.10 NTU  | 39.8 mV | 25.00 ft       | 150.00 ml/min |
| 8/1/2023 11:30 AM | 20:00        | 7.16 pH | 25.07 °C    | 508.13 µS/cm          | 1.30 mg/L         | 4.20 NTU  | 41.2 mV | 25.00 ft       | 150.00 ml/min |
| 8/1/2023 11:35 AM | 25:00        | 7.15 pH | 25.20 °C    | 506.08 µS/cm          | 1.07 mg/L         | 2.80 NTU  | 49.1 mV | 25.00 ft       | 150.00 ml/min |
| 8/1/2023 11:40 AM | 30:00        | 7.15 pH | 25.06 °C    | 500.67 µS/cm          | 1.10 mg/L         | 2.50 NTU  | 45.2 mV | 25.00 ft       | 150.00 ml/min |
| 8/1/2023 11:45 AM | 35:00        | 7.14 pH | 24.93 °C    | 509.14 µS/cm          | 1.08 mg/L         | 3.00 NTU  | 46.7 mV | 25.00 ft       | 150.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|            |              |

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 9:56:02 AM

Project: Plant McIntosh AP-1

Operator Name: H. Auld

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWA-6A<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 29.67 ft<br><b>Total Depth:</b> 39.67 ft<br><b>Initial Depth to Water:</b> 23.44 ft | <b>Pump Type:</b> Peri Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 34.6 ft<br><b>Estimated Total Volume Pumped:</b><br>6.75 liter<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 150 ml/min<br><b>Final Draw Down:</b> 16.3 in | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 884189 |
|--|---|--|

## Test Notes:

Sampled at 1040 on 8-1-23. Sunny, 80s.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 100     | +/- 5 %               | +/- 10 %          | +/- 5     | +/- 300  | +/- 10         |               |
| 8/1/2023 9:56 AM  | 00:00        | 4.45 pH | 36.90 °C    | 2.37 µS/cm            | 6.69 mg/L         | 5.00 NTU  | 208.2 mV | 23.44 ft       | 150.00 ml/min |
| 8/1/2023 9:59 AM  | 03:13        | 6.59 pH | 27.15 °C    | 463.88 µS/cm          | 2.38 mg/L         | 5.05 NTU  | 62.3 mV  | 24.30 ft       | 150.00 ml/min |
| 8/1/2023 10:04 AM | 08:13        | 6.99 pH | 24.45 °C    | 479.31 µS/cm          | 2.09 mg/L         | 4.30 NTU  | 49.0 mV  | 24.50 ft       | 150.00 ml/min |
| 8/1/2023 10:09 AM | 13:13        | 7.11 pH | 24.46 °C    | 479.82 µS/cm          | 1.96 mg/L         | 3.30 NTU  | 32.9 mV  | 24.60 ft       | 150.00 ml/min |
| 8/1/2023 10:14 AM | 18:13        | 7.17 pH | 24.38 °C    | 478.94 µS/cm          | 1.82 mg/L         | 2.50 NTU  | 23.2 mV  | 24.60 ft       | 150.00 ml/min |
| 8/1/2023 10:19 AM | 23:13        | 7.18 pH | 24.39 °C    | 481.28 µS/cm          | 1.54 mg/L         | 1.70 NTU  | -2.0 mV  | 24.70 ft       | 150.00 ml/min |
| 8/1/2023 10:24 AM | 28:13        | 7.19 pH | 24.40 °C    | 481.35 µS/cm          | 1.36 mg/L         | 1.60 NTU  | -43.0 mV | 24.70 ft       | 150.00 ml/min |
| 8/1/2023 10:29 AM | 33:13        | 7.20 pH | 24.44 °C    | 480.15 µS/cm          | 1.33 mg/L         | 2.00 NTU  | -22.5 mV | 24.80 ft       | 150.00 ml/min |
| 8/1/2023 10:34 AM | 38:13        | 7.20 pH | 24.29 °C    | 479.37 µS/cm          | 1.26 mg/L         | 1.20 NTU  | -26.4 mV | 24.80 ft       | 150.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|            |              |

# Low-Flow Test Report:

Test Date / Time: 8/2/2023 9:36:57 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

|   |   |  |
|---|---|--|
| <b>Location Name:</b> MGWC-7<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 32.29 ft<br><b>Total Depth:</b> 42.29 ft<br><b>Initial Depth to Water:</b> 24.98 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 37 ft<br><b>Estimated Total Volume Pumped:</b><br>6300 ml<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 140 ml/min<br><b>Final Draw Down:</b> 0.82 ft | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 989619 |
|---|---|--|

## Test Notes:

Sampled at 1021. Sunny 79 degrees.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 25   | +/- 0.3        |               |
| 8/2/2023 9:36 AM  | 00:00        | 7.35 pH | 24.50 °C    | 491.09 µS/cm          | 1.56 mg/L         | 0.50 NTU  | 129.3 mV | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 9:41 AM  | 05:00        | 7.08 pH | 23.52 °C    | 522.76 µS/cm          | 1.45 mg/L         | 0.38 NTU  | 95.7 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 9:46 AM  | 10:00        | 7.03 pH | 23.57 °C    | 521.70 µS/cm          | 1.27 mg/L         | 0.31 NTU  | 96.5 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 9:51 AM  | 15:00        | 6.99 pH | 23.53 °C    | 505.53 µS/cm          | 1.13 mg/L         | 0.28 NTU  | 66.5 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 9:56 AM  | 20:00        | 6.96 pH | 23.60 °C    | 512.53 µS/cm          | 1.03 mg/L         | 0.25 NTU  | 68.6 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 10:01 AM | 25:00        | 6.94 pH | 23.61 °C    | 515.57 µS/cm          | 0.85 mg/L         | 0.30 NTU  | 64.3 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 10:06 AM | 30:00        | 6.93 pH | 23.68 °C    | 516.53 µS/cm          | 0.73 mg/L         | 0.33 NTU  | 58.0 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 10:11 AM | 35:00        | 6.91 pH | 23.60 °C    | 512.05 µS/cm          | 0.58 mg/L         | 0.35 NTU  | 55.1 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 10:16 AM | 40:00        | 6.92 pH | 23.84 °C    | 511.54 µS/cm          | 0.52 mg/L         | 0.47 NTU  | 52.2 mV  | 25.80 ft       | 140.00 ml/min |
| 8/2/2023 10:21 AM | 45:00        | 6.90 pH | 23.91 °C    | 507.62 µS/cm          | 0.47 mg/L         | 0.44 NTU  | 47.3 mV  | 25.80 ft       | 140.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 3:14:50 PM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

|   |  |  |
|---|--|--|
| <b>Location Name:</b> MGWC-8<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 42.56 ft<br><b>Total Depth:</b> 52.56 ft<br><b>Initial Depth to Water:</b> 35.15 ft | <b>Pump Type:</b> Portable Bladder Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 47 ft<br><b>Estimated Total Volume Pumped:</b><br>6900 ml<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 230 ml/min<br><b>Final Draw Down:</b> 0.42 ft | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 989619 |
|---|--|--|

## Test Notes:

Sampled at 1544. Partly cloudy 89 degrees.

## Low-Flow Readings:

| Date Time        | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                  |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 25   | +/- 0.3        |               |
| 8/1/2023 3:14 PM | 00:00        | 5.75 pH | 32.39 °C    | 440.18 µS/cm          | 2.97 mg/L         | 1.09 NTU  | 5.6 mV   | 35.44 ft       | 230.00 ml/min |
| 8/1/2023 3:19 PM | 05:00        | 5.46 pH | 25.01 °C    | 473.07 µS/cm          | 1.71 mg/L         | 1.15 NTU  | -11.4 mV | 35.50 ft       | 230.00 ml/min |
| 8/1/2023 3:24 PM | 10:00        | 6.40 pH | 24.09 °C    | 619.88 µS/cm          | 1.15 mg/L         | 2.27 NTU  | -11.8 mV | 35.50 ft       | 230.00 ml/min |
| 8/1/2023 3:29 PM | 15:00        | 6.71 pH | 23.81 °C    | 669.65 µS/cm          | 0.96 mg/L         | 1.34 NTU  | -26.4 mV | 35.57 ft       | 230.00 ml/min |
| 8/1/2023 3:34 PM | 20:00        | 6.75 pH | 23.72 °C    | 675.96 µS/cm          | 0.83 mg/L         | 1.17 NTU  | 1.0 mV   | 35.57 ft       | 230.00 ml/min |
| 8/1/2023 3:39 PM | 25:00        | 6.76 pH | 23.73 °C    | 686.90 µS/cm          | 0.76 mg/L         | 0.95 NTU  | -12.6 mV | 35.57 ft       | 230.00 ml/min |
| 8/1/2023 3:44 PM | 30:00        | 6.77 pH | 23.80 °C    | 691.20 µS/cm          | 0.67 mg/L         | 0.90 NTU  | -11.1 mV | 35.57 ft       | 230.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 9:54:12 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWA-10<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 43.09 ft<br><b>Total Depth:</b> 53.09 ft<br><b>Initial Depth to Water:</b> 20.13 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 48 ft<br><b>Estimated Total Volume Pumped:</b><br>6000 ml<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 100 ml/min<br><b>Final Draw Down:</b> 2.92 ft | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 989619 |
|--|---|--|

## Test Notes:

Sampled at 1054. Partly cloudy 83 degrees. Water line disconnected at 30 minute mark, causing an errant reading at the time.

Re-connected line and continued log

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 25   | +/- 0.3        |               |
| 8/1/2023 9:54 AM  | 00:00        | 6.71 pH | 29.84 °C    | 81.99 µS/cm           | 6.00 mg/L         | 1.72 NTU  | 173.5 mV | 20.33 ft       | 100.00 ml/min |
| 8/1/2023 9:59 AM  | 05:00        | 5.57 pH | 24.36 °C    | 58.50 µS/cm           | 4.87 mg/L         | 1.31 NTU  | 111.5 mV | 21.24 ft       | 100.00 ml/min |
| 8/1/2023 10:04 AM | 10:00        | 5.65 pH | 24.08 °C    | 59.55 µS/cm           | 5.08 mg/L         | 1.05 NTU  | 134.1 mV | 22.01 ft       | 100.00 ml/min |
| 8/1/2023 10:09 AM | 15:00        | 5.60 pH | 24.52 °C    | 58.92 µS/cm           | 5.09 mg/L         | 0.97 NTU  | 100.8 mV | 22.48 ft       | 100.00 ml/min |
| 8/1/2023 10:14 AM | 20:00        | 5.57 pH | 24.63 °C    | 58.76 µS/cm           | 4.76 mg/L         | 0.91 NTU  | 95.3 mV  | 22.63 ft       | 100.00 ml/min |
| 8/1/2023 10:19 AM | 25:00        | 5.57 pH | 24.52 °C    | 58.49 µS/cm           | 4.47 mg/L         | 1.12 NTU  | 121.7 mV | 22.79 ft       | 100.00 ml/min |
| 8/1/2023 10:24 AM | 30:00        | 5.76 pH | 24.70 °C    | 0.00 µS/cm            | 5.63 mg/L         | 1.04 NTU  | 53.1 mV  | 22.85 ft       | 100.00 ml/min |
| 8/1/2023 10:29 AM | 35:00        | 5.52 pH | 25.31 °C    | 60.23 µS/cm           | 3.36 mg/L         | 1.11 NTU  | 99.7 mV  | 22.88 ft       | 100.00 ml/min |
| 8/1/2023 10:34 AM | 40:00        | 5.55 pH | 27.19 °C    | 61.35 µS/cm           | 3.10 mg/L         | 0.98 NTU  | 92.1 mV  | 22.91 ft       | 100.00 ml/min |
| 8/1/2023 10:39 AM | 45:00        | 5.45 pH | 24.91 °C    | 57.90 µS/cm           | 2.41 mg/L         | 0.82 NTU  | 83.3 mV  | 22.94 ft       | 100.00 ml/min |
| 8/1/2023 10:44 AM | 50:00        | 5.43 pH | 24.49 °C    | 57.38 µS/cm           | 2.10 mg/L         | 0.76 NTU  | 82.4 mV  | 22.97 ft       | 100.00 ml/min |
| 8/1/2023 10:49 AM | 55:00        | 5.44 pH | 24.45 °C    | 56.82 µS/cm           | 2.04 mg/L         | 0.75 NTU  | 84.7 mV  | 23.01 ft       | 100.00 ml/min |
| 8/1/2023 10:54 AM | 01:00:00     | 5.46 pH | 24.43 °C    | 56.98 µS/cm           | 2.05 mg/L         | 0.83 NTU  | 81.9 mV  | 23.05 ft       | 100.00 ml/min |

# Low-Flow Test Report:

Test Date / Time: 8/1/2023 11:50:47 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

|  |  |  |
|--|--|--|
| <b>Location Name:</b> MGWA-11<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 45.81 ft<br><b>Total Depth:</b> 55.81 ft<br><b>Initial Depth to Water:</b> 23.67 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 50 ft<br><b>Estimated Total Volume Pumped:</b><br>6600 ml<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 220 ml/min<br><b>Final Draw Down:</b> 0.5 ft | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 989619 |
|--|--|--|

## Test Notes:

Sampled at 1220. Partly cloudy 87 degrees

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP       | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 25    | +/- 0.3        |               |
| 8/1/2023 11:50 AM | 00:00        | 7.35 pH | 30.34 °C    | 220.64 µS/cm          | 4.60 mg/L         | 0.97 NTU  | 14.2 mV   | 24.07 ft       | 220.00 ml/min |
| 8/1/2023 11:55 AM | 05:00        | 7.68 pH | 24.76 °C    | 238.46 µS/cm          | 0.24 mg/L         | 0.36 NTU  | -50.8 mV  | 24.12 ft       | 220.00 ml/min |
| 8/1/2023 12:00 PM | 10:00        | 7.70 pH | 24.23 °C    | 236.96 µS/cm          | 0.13 mg/L         | 0.33 NTU  | -116.3 mV | 24.15 ft       | 220.00 ml/min |
| 8/1/2023 12:05 PM | 15:00        | 7.69 pH | 24.03 °C    | 240.84 µS/cm          | 0.10 mg/L         | 0.33 NTU  | -140.7 mV | 24.17 ft       | 220.00 ml/min |
| 8/1/2023 12:10 PM | 20:00        | 7.62 pH | 23.88 °C    | 284.64 µS/cm          | 0.10 mg/L         | 0.31 NTU  | -66.9 mV  | 24.17 ft       | 220.00 ml/min |
| 8/1/2023 12:15 PM | 25:00        | 7.61 pH | 23.78 °C    | 286.55 µS/cm          | 0.09 mg/L         | 0.35 NTU  | -122.3 mV | 24.17 ft       | 220.00 ml/min |
| 8/1/2023 12:20 PM | 30:00        | 7.61 pH | 23.96 °C    | 288.03 µS/cm          | 0.09 mg/L         | 0.39 NTU  | -123.8 mV | 24.17 ft       | 220.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

# Low-Flow Test Report:

Test Date / Time: 8/2/2023 11:05:39 AM

Project: Plant McIntosh AP-1

Operator Name: Taylor Goble

|  |   |  |
|--|---|--|
| <b>Location Name:</b> MGWC-12<br><b>Well Diameter:</b> 2 in<br><b>Casing Type:</b> PVC<br><b>Screen Length:</b> 10 ft<br><b>Top of Screen:</b> 42.9 ft<br><b>Total Depth:</b> 52.9 ft<br><b>Initial Depth to Water:</b> 28.76 ft | <b>Pump Type:</b> Peristaltic Pump<br><b>Tubing Type:</b> Poly<br><b>Pump Intake From TOC:</b> 47 ft<br><b>Estimated Total Volume Pumped:</b><br>7000 ml<br><b>Flow Cell Volume:</b> 90 ml<br><b>Final Flow Rate:</b> 175 ml/min<br><b>Final Draw Down:</b> 0.76 ft | <b>Instrument Used:</b> Aqua TROLL 400<br><b>Serial Number:</b> 989619 |
|--|---|--|

## Test Notes:

Sampled at 1145. Sunny 84 degrees.

## Low-Flow Readings:

| Date Time         | Elapsed Time | pH      | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP      | Depth to Water | Flow          |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
|                   |              | +/- 0.1 | +/- 2       | +/- 5 %               | +/- 10 %          | +/- 10    | +/- 25   | +/- 0.3        |               |
| 8/2/2023 11:05 AM | 00:00        | 7.16 pH | 32.41 °C    | 233.52 µS/cm          | 5.05 mg/L         | 0.55 NTU  | 126.7 mV | 29.22 ft       | 175.00 ml/min |
| 8/2/2023 11:10 AM | 05:00        | 6.96 pH | 23.13 °C    | 248.06 µS/cm          | 3.43 mg/L         | 0.57 NTU  | 76.3 mV  | 29.47 ft       | 175.00 ml/min |
| 8/2/2023 11:15 AM | 10:00        | 6.94 pH | 22.72 °C    | 251.90 µS/cm          | 3.48 mg/L         | 0.63 NTU  | 67.1 mV  | 29.52 ft       | 175.00 ml/min |
| 8/2/2023 11:20 AM | 15:00        | 6.95 pH | 22.74 °C    | 252.36 µS/cm          | 3.43 mg/L         | 0.43 NTU  | 63.5 mV  | 29.52 ft       | 175.00 ml/min |
| 8/2/2023 11:25 AM | 20:00        | 6.94 pH | 22.60 °C    | 252.32 µS/cm          | 3.39 mg/L         | 0.41 NTU  | 61.6 mV  | 29.52 ft       | 175.00 ml/min |
| 8/2/2023 11:30 AM | 25:00        | 6.95 pH | 22.55 °C    | 264.33 µS/cm          | 3.30 mg/L         | 0.37 NTU  | 59.1 mV  | 29.52 ft       | 175.00 ml/min |
| 8/2/2023 11:35 AM | 30:00        | 7.13 pH | 22.48 °C    | 284.02 µS/cm          | 1.25 mg/L         | 0.42 NTU  | -27.9 mV | 29.52 ft       | 175.00 ml/min |
| 8/2/2023 11:40 AM | 35:00        | 7.15 pH | 22.57 °C    | 282.92 µS/cm          | 0.89 mg/L         | 0.30 NTU  | -40.0 mV | 29.52 ft       | 175.00 ml/min |
| 8/2/2023 11:45 AM | 40:00        | 7.20 pH | 22.66 °C    | 284.61 µS/cm          | 0.48 mg/L         | 0.34 NTU  | -52.7 mV | 29.52 ft       | 175.00 ml/min |

## Samples

| Sample ID: | Description: |
|------------|--------------|
|            |              |



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: T. Goble

WATER LEVEL: Solinst  
WATER LEVEL S/N: 236986

INSTRUMENT S/N: 989619  
INSTRUMENT TYPE: AquaTroll  
CAL. SOLUTION/S: ID: pH4/land LOT #: 24000044 EXP. DATE: 5/24  
ID: pH7 LOT #: 22290139 EXP. DATE: 4/24  
ID: pH10 LOT #: 22110130 EXP. DATE: 4/24  
ID: ORP LOT #: 21390144 EXP. DATE: 11/23  
ID: LOT #: EXP. DATE: Midday pH check  
ID: LOT #: EXP. DATE: Must be less than .10  
ID: LOT #: EXP. DATE: (6.90-7.10 range)  
*Recalibrate if not within range*

Calibration Date: 8-1-23

RDO: 100% sat. = 98.46% Midday pH check  
PH: 4.00 = 4.86 7.00 = 7.12 10.00 = 9.99 7.0 = 7.04  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = N/A post recal check ✓  
CONDUCTIVITY: 4490 = 5217  
ORP (mV) 228 = 220.5

Calibration Date: 8-2-23

RDO: 100% sat. = 101.79 Midday pH check  
PH: 4.00 = 4.04 7.00 = 7.03 10.00 = 9.98 7.0 = N/A  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: 4490 = 4456  
ORP (mV) 228 = 224.7

Calibration Date:

RDO: 100% sat. = Midday pH check  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: T. Goble

INSTRUMENT S/N: 15030C039370  
INSTRUMENT TYPE: Hach 2100Q  
CAL. SOLUTION: 0 NTU - LOT # — EXP. DATE: New DI  
10 NTU - LOT # A2264 EXP. DATE: 1/24  
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 8-1-23

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | 0.37               | NTU |
| 10.0                 | 10.9               | NTU |
| 20.0                 | 22.9               | NTU |

$$100 = 101$$

$$800 = 748$$

Calibration Date: 8-2-23

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | 0.47               | NTU |
| 10.0                 | 10.8               | NTU |
| 20.0                 | 21.5               | NTU |

$$100 = 101$$

$$800 = 786$$

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: H.Avel

WATER LEVEL: Solinst M101  
WATER LEVEL S/N: 532172

INSTRUMENT S/N: 884189

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S: ID: Autocal LOT #: 22250153 EXP. DATE: 11/2023

ID: pH 7 LOT #: 2216893 EXP. DATE: 11/2023

ID: pH 10 LOT #: 21320202 EXP. DATE: 11/2023

ID: ORP LOT #: 21390144 EXP. DATE: 11/2023

ID: LOT #: EXP. DATE: Midday pH check

ID: LOT #: EXP. DATE: Must be less than .10

ID: LOT #: EXP. DATE: (6.90-7.10 range)

*Recalibrate if not within range*

Calibration Date: 8-1-23

RDO: 100% sat. = 98.5% Midday pH check  
PH: 4.00 = 3.98 7.00 = 7.25 10.00 = 10.07 7.0 = 7.08

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check

CONDUCTIVITY: 524490 = 52605

ORP (mV) 228 = 205

Calibration Date: 8-2-23

RDO: 100% sat. = 100.13 Midday pH check  
PH: 4.00 = 4.08 7.00 = 7.06 10.00 = 10.05 7.0 = 7.07

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check

CONDUCTIVITY: 4490 = 4715

ORP (mV) 228 = 247

Calibration Date:

RDO: 100% sat. = Midday pH check  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check  
PH: 4.00 = 7.00 = 10.00 = 7.0 =  
PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check  
CONDUCTIVITY: =  
ORP (mV) =



## Daily Instrument Calibration Log

SITE: Plant McIntosh  
TECHNICIAN: H. Aniel

INSTRUMENT S/N: 21030D000600  
INSTRUMENT TYPE: Hach 2100Q  
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: —  
10 NTU - LOT # A2264 EXP. DATE: 01/24  
20 NTU - LOT # A2231 EXP. DATE: 12/23

Calibration Date: 8-1-23

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | 0.3                | NTU |
| 10.0                 | 10.5               | NTU |
| 20.0                 | 19.9               | NTU |

Calibration Date: 8-2-23

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  | 0.4                | NTU |
| 10.0                 | 10.6               | NTU |
| 20.0                 | 19.4               | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading |     |
|----------------------|--------------------|-----|
| 0.0                  |                    | NTU |
| 10.0                 |                    | NTU |
| 20.0                 |                    | NTU |

# Well Inspection

Site Name: Plant McIntosh AP1

Date: 7/31/2023

Permit Number: 051-011D(CCR)

Field Conditions: 89 °F

# Well Inspection

Site Name: Plant McIntosh AP1

Date: 7/31/2023

Permit Number: 051-011D(CCR)

Field Conditions: 89 °F

# Well Inspection

Site Name: Plant McIntosh AP1

Date: 7/31/2023

Permit Number: 051-011D(CCR)

Field Conditions: 89 °F

## **Well Inspection**

Site Name: Plant McIntosh AP1

Date: 7/31/2023

Permit Number: 051-011D(CCR)

Field Conditions: 89 °F



## APPENDIX B

### Statistical Analysis Reports

## APPENDIX B

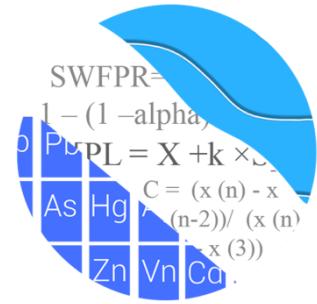
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*Statistical Analysis Reports  
February 2023 Monitoring Event*

GROUNDWATER STATS  
CONSULTING

August 31, 2023

Southern Company Services  
Attn: Ms. Lauren Hartley  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308



Re: Plant McIntosh Ash Pond 1 (AP-1)  
Statistical Analysis February 2023

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 Semi-Annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant McIntosh AP-1. 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 the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
- **Downgradient wells:** MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient 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 the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Both intrawell and interwell prediction limits, combined with a 1-of-2 resample plan, were originally recommended. The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. 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.

### **Summary of Statistical Methods – Appendix III Parameters**

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. While this was not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

### **Statistical Analysis of Appendix III Parameters – February 2023**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. When values in background have been flagged as outliers, they may be seen in a lighter font and as a disconnected symbol on the graphs. No additional values were flagged as outliers and a summary of flagged values follows this report (Figure C).

#### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2023 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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Boron: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Chloride: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Fluoride: MGWC-12
- Sulfate: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8

### 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 to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

#### Increasing

- Boron: MGWC-7 and MGWC-8
- Chloride: MGWC-8
- Sulfate: MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-8

#### Decreasing

- Boron: MGWA-6 (upgradient) and MGWC-2
- Chloride: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-6A (upgradient), MGWC-2, and MGWC-7
- Sulfate: MGWA-5 (upgradient), MGWA-6 (upgradient), MGW-10 (upgradient), and MGWC-2
- TDS: MGWC-2

### **Statistical Methods – Appendix IV Parameters**

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals.

Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

## **Statistical Analysis of Appendix IV Parameters – February 2023**

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. 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.

During previous analyses, high concentrations from May 2016 through April 2017 for arsenic at upgradient well MGWA-6 were deselected prior to calculating an interwell upper tolerance limit. These historical measurements were considerably higher than more recent measurements; and this step results in a more conservative (i.e., lower) statistical limit from a regulatory perspective. Additionally, the August 2022 observation for cobalt in upgradient well MGWA-5 was previously flagged as an outlier in order to construct a conservative interwell tolerance limit. This measurement was re-evaluated during this analysis and remains flagged. All background data will be re-evaluated for upgradient wells during the next analysis. A summary of these background data ranges follows this letter. No additional values were flagged as outliers and a summary of previously flagged outliers follows this report (Figure C).

### Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for combined radium. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules

for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

#### Confidence Intervals

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well using all available data through February 2023 (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence intervals follow this letter and exceedances were identified for the following well/constituent pairs:

- Cobalt: MGWC-7 and MGWC-8
- Lithium: MGWC-7

## Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. No statistically significant trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant McIntosh AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane  
Groundwater Analyst



Andrew Collins  
Project Manager

## Date Ranges

Page 1

Date: 3/23/2023 8:43 PM

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Arsenic (mg/L)  
MGWA-6 overall:3/29/2018-2/8/2023

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 3/23/2023 12:09 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

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Antimony (mg/L)  
MGWC-1, MGWC-2, MGWC-8

Beryllium (mg/L)  
MGWC-12, MGWC-2, MGWC-7

Cadmium (mg/L)  
MGWC-12, MGWC-3

Lead (mg/L)  
MGWC-1, MGWC-2, MGWC-3

Mercury (mg/L)  
MGWC-1

Molybdenum (mg/L)  
MGWC-2, MGWC-3

Thallium (mg/L)  
MGWC-7

## Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:02 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 2/8/2023    | 1.5            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 2/8/2023    | 1.8            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 2/7/2023    | 0.63           | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 2/8/2023    | 2.1            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 2/8/2023    | 3.9            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Chloride (mg/L)    | MGWC-1      | 9.334             | n/a               | 2/8/2023    | 12             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.334             | n/a               | 2/7/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.334             | n/a               | 2/8/2023    | 13             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 2/7/2023    | 0.25           | Yes         | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.96             | n/a               | 2/8/2023    | 140            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.96             | n/a               | 2/8/2023    | 150            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.96             | n/a               | 2/7/2023    | 120            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.96             | n/a               | 2/8/2023    | 220            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.96             | n/a               | 2/8/2023    | 280            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 346.6             | n/a               | 2/8/2023    | 400            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 346.6             | n/a               | 2/8/2023    | 440            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 346.6             | n/a               | 2/7/2023    | 410            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 346.6             | n/a               | 2/8/2023    | 370            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 346.6             | n/a               | 2/8/2023    | 480            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

# Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:02 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 2/8/2023    | 1.5            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-12     | 0.18              | n/a               | 2/7/2023    | 0.067J         | No          | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 2/8/2023    | 1.8            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 2/7/2023    | 0.63           | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 2/8/2023    | 2.1            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 2/8/2023    | 3.9            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)     | MGWC-1      | 110               | n/a               | 2/8/2023    | 110            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-12     | 110               | n/a               | 2/7/2023    | 30             | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-2      | 110               | n/a               | 2/8/2023    | 100            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-3      | 110               | n/a               | 2/7/2023    | 110            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-7      | 110               | n/a               | 2/8/2023    | 65             | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-8      | 110               | n/a               | 2/8/2023    | 110            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Chloride (mg/L)    | MGWC-1      | 9.334             | n/a               | 2/8/2023    | 12             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-12     | 9.334             | n/a               | 2/7/2023    | 4.2            | No          | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.334             | n/a               | 2/7/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.334             | n/a               | 2/8/2023    | 13             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-1      | 0.19              | n/a               | 2/8/2023    | 0.11           | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 2/7/2023    | 0.25           | Yes         | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-2      | 0.19              | n/a               | 2/8/2023    | 0.074J         | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-3      | 0.19              | n/a               | 2/7/2023    | 0.076J         | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-7      | 0.19              | n/a               | 2/8/2023    | 0.14           | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-8      | 0.19              | n/a               | 2/8/2023    | 0.084J         | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-1      | 8.12              | 5                 | 2/8/2023    | 7.28           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-12     | 8.12              | 5                 | 2/7/2023    | 6.95           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-2      | 8.12              | 5                 | 2/8/2023    | 7.44           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-3      | 8.12              | 5                 | 2/7/2023    | 7.01           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-7      | 8.12              | 5                 | 2/8/2023    | 7.43           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-8      | 8.12              | 5                 | 2/8/2023    | 6.76           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.96             | n/a               | 2/8/2023    | 140            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-12     | 17.96             | n/a               | 2/7/2023    | 4.7            | No          | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.96             | n/a               | 2/8/2023    | 150            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.96             | n/a               | 2/7/2023    | 120            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.96             | n/a               | 2/8/2023    | 220            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.96             | n/a               | 2/8/2023    | 280            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 346.6             | n/a               | 2/8/2023    | 400            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-12     | 346.6             | n/a               | 2/7/2023    | 190            | No          | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 346.6             | n/a               | 2/8/2023    | 440            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 346.6             | n/a               | 2/7/2023    | 410            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 346.6             | n/a               | 2/8/2023    | 370            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 346.6             | n/a               | 2/8/2023    | 480            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

### Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:13 PM

| <u>Constituent</u> | <u>Well</u>  | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)       | MGWA-6 (bg)  | -0.01886     | -132         | -81             | Yes         | 20       | 20          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-2       | -0.272       | -138         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-7       | 0.09682      | 143          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-8       | 0.578        | 85           | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-5 (bg)  | -0.2156      | -111         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6 (bg)  | -1.138       | -164         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6A (bg) | -0.4011      | -37          | -30             | Yes         | 10       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-2       | -1.562       | -162         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-7       | -0.5888      | -126         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-8       | 0.4104       | 97           | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-10 (bg) | -0.1405      | -90          | -81             | Yes         | 20       | 35          | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-5 (bg)  | -0.6815      | -128         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-6 (bg)  | -2.922       | -155         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-2       | -23.35       | -162         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-3       | 6.754        | 138          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-7       | 6.288        | 88           | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-8       | 42.97        | 106          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-2       | -33.46       | -142         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-8       | 68.04        | 110          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |

### Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:13 PM

| <u>Constituent</u>     | <u>Well</u>         | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------------|-----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)           | MGWA-10 (bg)        | 0               | 56           | 81              | No          | 20        | 70          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-11 (bg)        | 0               | 14           | 81              | No          | 20        | 60          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-5 (bg)         | 0               | 14           | 81              | No          | 20        | 85          | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWA-6 (bg)</b>  | <b>-0.01886</b> | <b>-132</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>20</b>   | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWA-6A (bg)        | 0               | -5           | -30             | No          | 10        | 70          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWC-1              | 0.1362          | 78           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-2</b>       | <b>-0.272</b>   | <b>-138</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWC-3              | -0.02947        | -29          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-7</b>       | <b>0.09682</b>  | <b>143</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| <b>Boron (mg/L)</b>    | <b>MGWC-8</b>       | <b>0.578</b>    | <b>85</b>    | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-10 (bg)        | 0               | 5            | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-11 (bg)        | -0.02923        | -17          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWA-5 (bg)</b>  | <b>-0.2156</b>  | <b>-111</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-6 (bg)         | -1.138          | -164         | -81             | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-6A (bg)        | -0.4011         | -37          | -30             | Yes         | 10        | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWC-1              | 0               | -52          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-2</b>       | <b>-1.562</b>   | <b>-162</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-3              | 0               | 36           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.5888</b>  | <b>-126</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-8              | 0.4104          | 97           | 81              | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-10 (bg)        | 0               | -37          | -87             | No          | 21        | 66.67       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-11 (bg)        | -0.00351        | -19          | -87             | No          | 21        | 9.524       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-5 (bg)         | -0.004835       | -65          | -87             | No          | 21        | 19.05       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6 (bg)         | -0.005254       | -61          | -87             | No          | 21        | 28.57       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6A (bg)        | 0               | 1            | 30              | No          | 10        | 20          | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWC-12             | -0.01405        | -67          | -87             | No          | 21        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.1405</b>  | <b>-90</b>   | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>35</b>   | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-11 (bg)        | 0.187           | 59           | 81              | No          | 20        | 30          | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-5 (bg)</b>  | <b>-0.6815</b>  | <b>-128</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-6 (bg)         | -2.922          | -155         | -81             | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWA-6A (bg)        | -0.05159        | -4           | -30             | No          | 10        | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWC-1              | 2.916           | 47           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-2</b>       | <b>-23.35</b>   | <b>-162</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWC-3              | 6.754           | 138          | 81              | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-7</b>       | <b>6.288</b>    | <b>88</b>    | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWC-8              | 42.97           | 106          | 81              | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-10 (bg)        | -2.862          | -41          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-11 (bg)        | 2.39            | 26           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-5 (bg)         | 1.211           | 17           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6 (bg)         | -1.884          | -35          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6A (bg)        | -3.259          | -4           | -30             | No          | 10        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-1              | 10.77           | 45           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-2</b>       | <b>-33.46</b>   | <b>-142</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWC-3              | 7.635           | 59           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-7              | 11.09           | 65           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-8</b>       | <b>68.04</b>    | <b>110</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |

## Upper Tolerance Limits Summary Table

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 8:49 PM

| <u>Constituent</u>                | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | 0.002             | n/a               | n/a         | n/a            | n/a         | 81          | 91.36       | n/a              | 0.01569      | NP Inter(NDs)       |
| Arsenic (mg/L)                    | 0.014             | n/a               | n/a         | n/a            | n/a         | 91          | 36.26       | n/a              | 0.009394     | NP Inter(normality) |
| Barium (mg/L)                     | 0.13              | n/a               | n/a         | n/a            | n/a         | 99          | 0           | n/a              | 0.006232     | NP Inter(normality) |
| Beryllium (mg/L)                  | 0.0025            | n/a               | n/a         | n/a            | n/a         | 89          | 94.38       | n/a              | 0.01041      | NP Inter(NDs)       |
| Cadmium (mg/L)                    | 0.0025            | n/a               | n/a         | n/a            | n/a         | 99          | 98.99       | n/a              | 0.006232     | NP Inter(NDs)       |
| Chromium (mg/L)                   | 0.0063            | n/a               | n/a         | n/a            | n/a         | 89          | 71.91       | n/a              | 0.01041      | NP Inter(NDs)       |
| Cobalt (mg/L)                     | 0.0025            | n/a               | n/a         | n/a            | n/a         | 98          | 72.45       | n/a              | 0.00656      | NP Inter(NDs)       |
| Combined Radium 226 + 228 (pCi/L) | 1.128             | n/a               | n/a         | n/a            | n/a         | 100         | 0           | No               | 0.05         | Inter               |
| Fluoride (mg/L)                   | 0.19              | n/a               | n/a         | n/a            | n/a         | 94          | 29.79       | n/a              | 0.008054     | NP Inter(normality) |
| Lead (mg/L)                       | 0.001             | n/a               | n/a         | n/a            | n/a         | 81          | 93.83       | n/a              | 0.01569      | NP Inter(NDs)       |
| Lithium (mg/L)                    | 0.03              | n/a               | n/a         | n/a            | n/a         | 99          | 30.3        | n/a              | 0.006232     | NP Inter(normality) |
| Mercury (mg/L)                    | 0.0002            | n/a               | n/a         | n/a            | n/a         | 89          | 96.63       | n/a              | 0.01041      | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | 0.015             | n/a               | n/a         | n/a            | n/a         | 89          | 62.92       | n/a              | 0.01041      | NP Inter(NDs)       |
| Selenium (mg/L)                   | 0.005             | n/a               | n/a         | n/a            | n/a         | 69          | 91.3        | n/a              | 0.02904      | NP Inter(NDs)       |
| Thallium (mg/L)                   | 0.001             | n/a               | n/a         | n/a            | n/a         | 89          | 83.15       | n/a              | 0.01041      | NP Inter(NDs)       |

| PLANT MCINTOSH AP 1 GWPS       |       |                    |                  |       |
|--------------------------------|-------|--------------------|------------------|-------|
| Constituent Name               | MCL   | CCR-Rule Specified | Background Limit | GWPS  |
| Antimony, Total (mg/L)         | 0.006 |                    | 0.002            | 0.006 |
| Arsenic, Total (mg/L)          | 0.01  |                    | 0.014            | 0.014 |
| Barium, Total (mg/L)           | 2     |                    | 0.13             | 2     |
| Beryllium, Total (mg/L)        | 0.004 |                    | 0.0025           | 0.004 |
| Cadmium, Total (mg/L)          | 0.005 |                    | 0.0025           | 0.005 |
| Chromium, Total (mg/L)         | 0.1   |                    | 0.0063           | 0.1   |
| Cobalt, Total (mg/L)           | n/a   | 0.006              | 0.0025           | 0.006 |
| Combined Radium, Total (pCi/L) | 5     |                    | 1.13             | 5     |
| Fluoride, Total (mg/L)         | 4     |                    | 0.19             | 4     |
| Lead, Total (mg/L)             | n/a   | 0.015              | 0.001            | 0.015 |
| Lithium, Total (mg/L)          | n/a   | 0.04               | 0.03             | 0.04  |
| Mercury, Total (mg/L)          | 0.002 |                    | 0.0002           | 0.002 |
| Molybdenum, Total (mg/L)       | n/a   | 0.1                | 0.015            | 0.1   |
| Selenium, Total (mg/L)         | 0.05  |                    | 0.005            | 0.05  |
| Thallium, Total (mg/L)         | 0.002 |                    | 0.001            | 0.002 |

\*Grey cell indicates background is higher than MCL or CCR-Rule

\*GWPS = Groundwater Protection Standard

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

## Confidence Intervals - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:13 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|------------------|-------------|------------------|--------------|----------------|
| Cobalt (mg/L)      | MGWC-7      | 0.009822          | 0.007005          | 0.006             | Yes         | 22       | 0.002624         | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)      | MGWC-8      | 0.01566           | 0.007296          | 0.006             | Yes         | 22       | 0.007789         | 0           | No               | 0.01         | Param.         |
| Lithium (mg/L)     | MGWC-7      | 0.13              | 0.112             | 0.04              | Yes         | 22       | 0.01965          | 0           | No               | 0.01         | NP (normality) |

# Confidence Intervals - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:13 AM

| <u>Constituent</u>                | <u>Well</u>   | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u>  | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>         |
|-----------------------------------|---------------|-------------------|-------------------|-------------------|-------------|-----------|------------------|-------------|------------------|--------------|-----------------------|
| Antimony (mg/L)                   | MGWC-12       | 0.002             | 0.0015            | 0.006             | No          | 18        | 0.0003884        | 88.89       | No               | 0.01         | NP (NDs)              |
| Antimony (mg/L)                   | MGWC-3        | 0.002             | 0.0003            | 0.006             | No          | 18        | 0.0004007        | 94.44       | No               | 0.01         | NP (NDs)              |
| Antimony (mg/L)                   | MGWC-7        | 0.002             | 0.00197           | 0.006             | No          | 18        | 0.0003509        | 88.89       | No               | 0.01         | NP (NDs)              |
| Arsenic (mg/L)                    | MGWC-1        | 0.002785          | 0.00192           | 0.014             | No          | 22        | 0.0008054        | 0           | No               | 0.01         | Param.                |
| Arsenic (mg/L)                    | MGWC-12       | 0.001076          | 0.0006626         | 0.014             | No          | 22        | 0.0003659        | 27.27       | No               | 0.01         | Param.                |
| Arsenic (mg/L)                    | MGWC-2        | 0.001             | 0.00068           | 0.014             | No          | 22        | 0.0001986        | 81.82       | No               | 0.01         | NP (NDs)              |
| Arsenic (mg/L)                    | MGWC-3        | 0.0017            | 0.00143           | 0.014             | No          | 22        | 0.0003425        | 4.545       | No               | 0.01         | NP (normality)        |
| Arsenic (mg/L)                    | MGWC-7        | 0.0008144         | 0.0005167         | 0.014             | No          | 22        | 0.000281         | 36.36       | No               | 0.01         | Param.                |
| Arsenic (mg/L)                    | MGWC-8        | 0.001             | 0.00099           | 0.014             | No          | 22        | 0.000195         | 68.18       | No               | 0.01         | NP (NDs)              |
| Barium (mg/L)                     | MGWC-1        | 0.11              | 0.096             | 2                 | No          | 22        | 0.01606          | 0           | No               | 0.01         | NP (normality)        |
| Barium (mg/L)                     | MGWC-12       | 0.06494           | 0.05014           | 2                 | No          | 22        | 0.01378          | 0           | No               | 0.01         | Param.                |
| Barium (mg/L)                     | MGWC-2        | 0.05376           | 0.04819           | 2                 | No          | 22        | 0.005188         | 0           | No               | 0.01         | Param.                |
| Barium (mg/L)                     | MGWC-3        | 0.1553            | 0.1413            | 2                 | No          | 22        | 0.01302          | 0           | No               | 0.01         | Param.                |
| Barium (mg/L)                     | MGWC-7        | 0.015             | 0.01              | 2                 | No          | 22        | 0.006769         | 4.545       | No               | 0.01         | NP (normality)        |
| Barium (mg/L)                     | MGWC-8        | 0.04016           | 0.03374           | 2                 | No          | 22        | 0.006254         | 0           | sqrt(x)          | 0.01         | Param.                |
| Beryllium (mg/L)                  | MGWC-1        | 0.0025            | 0.00018           | 0.004             | No          | 20        | 0.0005188        | 95          | No               | 0.01         | NP (NDs)              |
| Beryllium (mg/L)                  | MGWC-3        | 0.0025            | 0.00031           | 0.004             | No          | 20        | 0.0004897        | 95          | No               | 0.01         | NP (NDs)              |
| Beryllium (mg/L)                  | MGWC-8        | 0.001658          | 0.0008074         | 0.004             | No          | 20        | 0.0007486        | 15          | No               | 0.01         | Param.                |
| Cadmium (mg/L)                    | MGWC-1        | 0.0025            | 0.0005            | 0.005             | No          | 22        | 0.0009893        | 77.27       | No               | 0.01         | NP (NDs)              |
| Cadmium (mg/L)                    | MGWC-2        | 0.002982          | 0.001229          | 0.005             | No          | 22        | 0.001884         | 0           | sqrt(x)          | 0.01         | Param.                |
| Cadmium (mg/L)                    | MGWC-7        | 0.0025            | 0.00041           | 0.005             | No          | 22        | 0.0006421        | 90.91       | No               | 0.01         | NP (NDs)              |
| Cadmium (mg/L)                    | MGWC-8        | 0.001423          | 0.0005973         | 0.005             | No          | 22        | 0.001177         | 27.27       | sqrt(x)          | 0.01         | Param.                |
| Chromium (mg/L)                   | MGWC-1        | 0.0036            | 0.0014            | 0.1               | No          | 20        | 0.0003887        | 90          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-12       | 0.0032            | 0.0012            | 0.1               | No          | 20        | 0.0006042        | 85          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-2        | 0.0033            | 0.002             | 0.1               | No          | 20        | 0.0002907        | 95          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-3        | 0.003             | 0.002             | 0.1               | No          | 20        | 0.0002236        | 95          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-7        | 0.0034            | 0.0015            | 0.1               | No          | 20        | 0.0003768        | 85          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-8        | 0.0031            | 0.0013            | 0.1               | No          | 20        | 0.0002984        | 90          | No               | 0.01         | NP (NDs)              |
| Cobalt (mg/L)                     | MGWC-1        | 0.0025            | 0.00047           | 0.006             | No          | 22        | 0.001026         | 63.64       | No               | 0.01         | NP (NDs)              |
| Cobalt (mg/L)                     | MGWC-12       | 0.0025            | 0.0015            | 0.006             | No          | 22        | 0.0005331        | 90.91       | No               | 0.01         | NP (NDs)              |
| Cobalt (mg/L)                     | MGWC-2        | 0.003228          | 0.002348          | 0.006             | No          | 22        | 0.0008194        | 0           | No               | 0.01         | Param.                |
| Cobalt (mg/L)                     | MGWC-3        | 0.00068           | 0.00051           | 0.006             | No          | 22        | 0.000478         | 13.64       | No               | 0.01         | NP (normality)        |
| <b>Cobalt (mg/L)</b>              | <b>MGWC-7</b> | <b>0.009822</b>   | <b>0.007005</b>   | <b>0.006</b>      | <b>Yes</b>  | <b>22</b> | <b>0.002624</b>  | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>Param.</b>         |
| <b>Cobalt (mg/L)</b>              | <b>MGWC-8</b> | <b>0.01566</b>    | <b>0.007296</b>   | <b>0.006</b>      | <b>Yes</b>  | <b>22</b> | <b>0.007789</b>  | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>Param.</b>         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-1        | 1.71              | 1.302             | 5                 | No          | 23        | 0.3905           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-12       | 0.7626            | 0.462             | 5                 | No          | 22        | 0.28             | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-2        | 0.7314            | 0.4682            | 5                 | No          | 22        | 0.2451           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-3        | 1.745             | 1.368             | 5                 | No          | 23        | 0.3608           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-7        | 1.327             | 0.9527            | 5                 | No          | 22        | 0.3488           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-8        | 1.952             | 1.389             | 5                 | No          | 22        | 0.524            | 0           | No               | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-1        | 0.2296            | 0.1406            | 4                 | No          | 21        | 0.08068          | 0           | No               | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-12       | 0.251             | 0.1966            | 4                 | No          | 21        | 0.05902          | 0           | x^2              | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-2        | 0.2               | 0.075             | 4                 | No          | 21        | 0.05953          | 33.33       | No               | 0.01         | NP (normality)        |
| Fluoride (mg/L)                   | MGWC-3        | 0.2               | 0.079             | 4                 | No          | 21        | 0.05951          | 28.57       | No               | 0.01         | NP (normality)        |
| Fluoride (mg/L)                   | MGWC-7        | 0.3286            | 0.2146            | 4                 | No          | 21        | 0.1033           | 0           | No               | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-8        | 0.1073            | 0.07066           | 4                 | No          | 21        | 0.03324          | 14.29       | No               | 0.01         | Param.                |
| Lead (mg/L)                       | MGWC-12       | 0.001             | 0.0001            | 0.015             | No          | 18        | 0.0002121        | 94.44       | No               | 0.01         | NP (NDs)              |
| Lead (mg/L)                       | MGWC-7        | 0.001             | 0.0003            | 0.015             | No          | 18        | 0.0002947        | 83.33       | No               | 0.01         | NP (NDs)              |
| Lead (mg/L)                       | MGWC-8        | 0.001             | 0.00022           | 0.015             | No          | 18        | 0.0001838        | 94.44       | No               | 0.01         | NP (NDs)              |
| Lithium (mg/L)                    | MGWC-1        | 0.01225           | 0.01023           | 0.04              | No          | 22        | 0.001875         | 4.545       | No               | 0.01         | Param.                |
| Lithium (mg/L)                    | MGWC-12       | 0.02215           | 0.01652           | 0.04              | No          | 22        | 0.00524          | 0           | No               | 0.01         | Param.                |
| Lithium (mg/L)                    | MGWC-2        | 0.0066            | 0.0051            | 0.04              | No          | 22        | 0.0042           | 4.545       | No               | 0.01         | NP (normality)        |
| Lithium (mg/L)                    | MGWC-3        | 0.01343           | 0.01149           | 0.04              | No          | 22        | 0.001808         | 0           | No               | 0.01         | Param.                |
| <b>Lithium (mg/L)</b>             | <b>MGWC-7</b> | <b>0.13</b>       | <b>0.112</b>      | <b>0.04</b>       | <b>Yes</b>  | <b>22</b> | <b>0.01965</b>   | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>NP (normality)</b> |
| Lithium (mg/L)                    | MGWC-8        | 0.03721           | 0.02552           | 0.04              | No          | 22        | 0.01089          | 0           | No               | 0.01         | Param.                |
| Mercury (mg/L)                    | MGWC-12       | 0.0002            | 0.000086          | 0.002             | No          | 20        | 0.00003699       | 90          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-2        | 0.0002            | 0.0001            | 0.002             | No          | 20        | 0.00003435       | 90          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-3        | 0.0002            | 0.00007           | 0.002             | No          | 20        | 0.00002907       | 95          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-7        | 0.0002            | 0.00008           | 0.002             | No          | 20        | 0.00002683       | 95          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-8        | 0.00026           | 0.00014           | 0.002             | No          | 21        | 0.0008595        | 38.1        | No               | 0.01         | NP (normality)        |
| Molybdenum (mg/L)                 | MGWC-1        | 0.0029            | 0.0012            | 0.1               | No          | 20        | 0.03016          | 20          | No               | 0.01         | NP (normality)        |
| Molybdenum (mg/L)                 | MGWC-12       | 0.015             | 0.002             | 0.1               | No          | 20        | 0.00639          | 70          | No               | 0.01         | NP (NDs)              |
| Molybdenum (mg/L)                 | MGWC-7        | 0.015             | 0.00351           | 0.1               | No          | 20        | 0.002569         | 95          | No               | 0.01         | NP (NDs)              |
| Molybdenum (mg/L)                 | MGWC-8        | 0.015             | 0.0037            | 0.1               | No          | 20        | 0.002527         | 95          | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-1        | 0.005             | 0.0005            | 0.05              | No          | 16        | 0.001125         | 93.75       | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-12       | 0.005             | 0.00027           | 0.05              | No          | 16        | 0.001182         | 93.75       | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-2        | 0.005             | 0.00045           | 0.05              | No          | 16        | 0.001137         | 93.75       | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-3        | 0.005             | 0.00044           | 0.05              | No          | 16        | 0.00114          | 93.75       | No               | 0.01         | NP (NDs)              |

# Confidence Intervals - All Results

Page 2

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:13 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|------------------|-------------|------------------|--------------|---------------|
| Selenium (mg/L)    | MGWC-7      | 0.005             | 0.00026           | 0.05              | No          | 16       | 0.001185         | 93.75       | No               | 0.01         | NP (NDs)      |
| Selenium (mg/L)    | MGWC-8      | 0.005             | 0.00038           | 0.05              | No          | 16       | 0.001915         | 75          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-1      | 0.001             | 0.00032           | 0.002             | No          | 20       | 0.0003752        | 75          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-12     | 0.001             | 0.00027           | 0.002             | No          | 20       | 0.0002439        | 90          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-2      | 0.001             | 0.00021           | 0.002             | No          | 20       | 0.0001766        | 95          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-3      | 0.001             | 0.00037           | 0.002             | No          | 20       | 0.0002288        | 90          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-8      | 0.0002436         | 0.0001385         | 0.002             | No          | 20       | 0.0003726        | 30          | ln(x)            | 0.01         | Param.        |

## Appendix IV Trend Tests - All Results (No Significant)

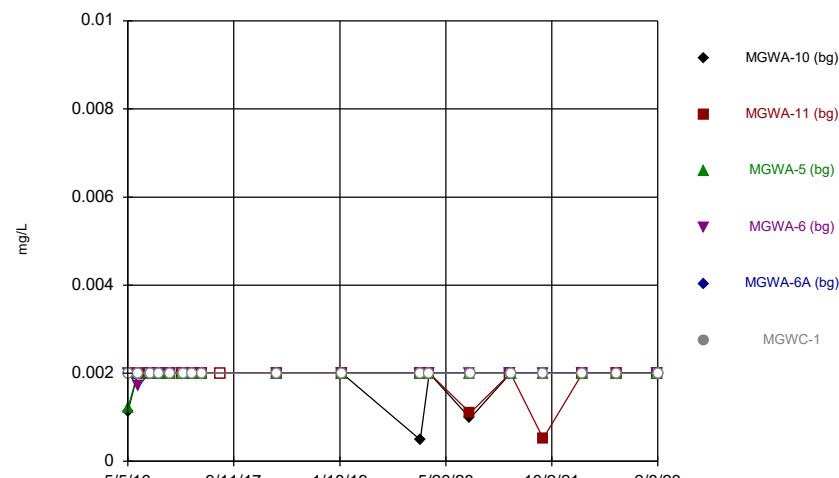
Plant McIntosh   Client: Southern Company   Data: McIntosh Ash Pond   Printed 3/23/2023, 12:49 AM

| <u>Constituent</u> | <u>Well</u>  | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)      | MGWA-10 (bg) | 0            | 0            | 92              | No          | 22       | 86.36       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-11 (bg) | 0            | 21           | 92              | No          | 22       | 95.45       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-5 (bg)  | 0            | 18           | 87              | No          | 21       | 95.24       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-6 (bg)  | 0            | -34          | -92             | No          | 22       | 40.91       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-6A (bg) | 0.00003862   | 4            | 34              | No          | 11       | 18.18       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWC-7       | -0.0005723   | -79          | -92             | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWC-8       | 0.003015     | 88           | 92              | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-10 (bg) | 0.00005878   | 14           | 92              | No          | 22       | 4.545       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-11 (bg) | 0.0008379    | 42           | 92              | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-5 (bg)  | 0.0003427    | 57           | 92              | No          | 22       | 4.545       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-6 (bg)  | 0            | 5            | 92              | No          | 22       | 95.45       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-6A (bg) | -0.0001001   | -28          | -34             | No          | 11       | 63.64       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWC-7       | 0            | 27           | 92              | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |

## FIGURE A.

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

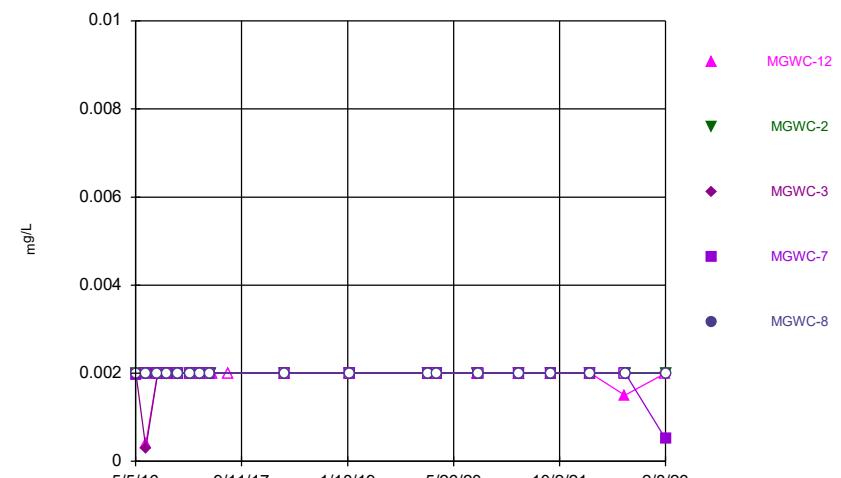
Time Series



Constituent: Antimony Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

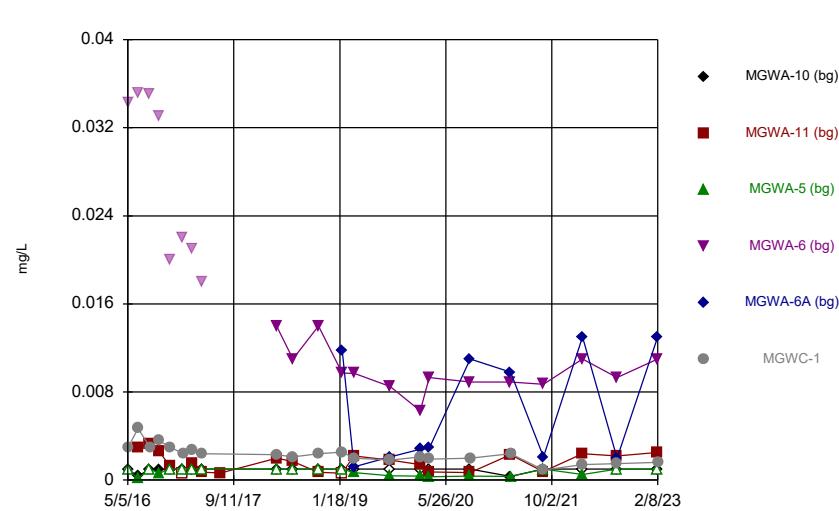
Time Series



Constituent: Antimony Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

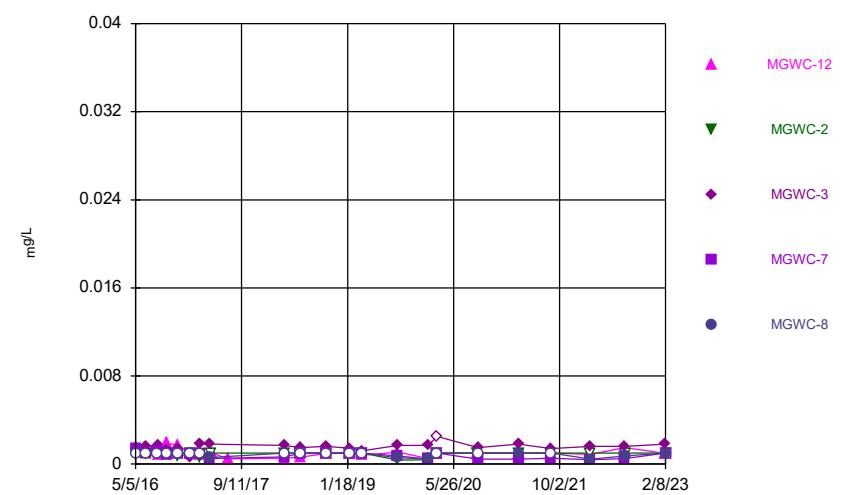
Time Series



Constituent: Arsenic Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

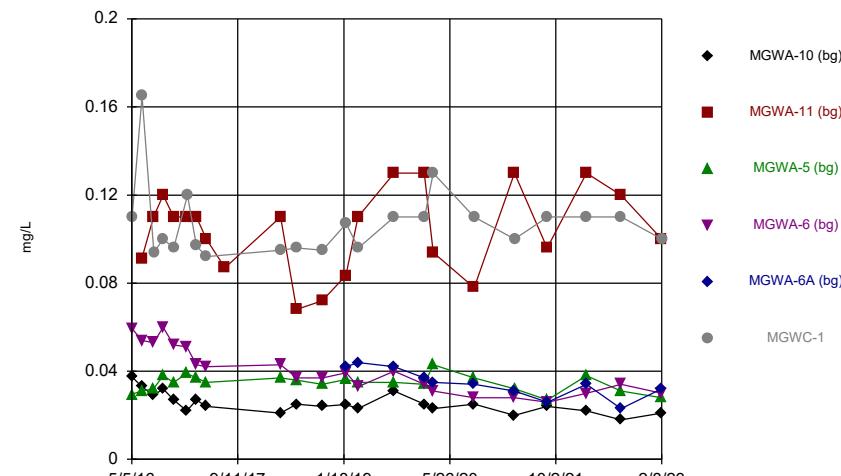
Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

Time Series



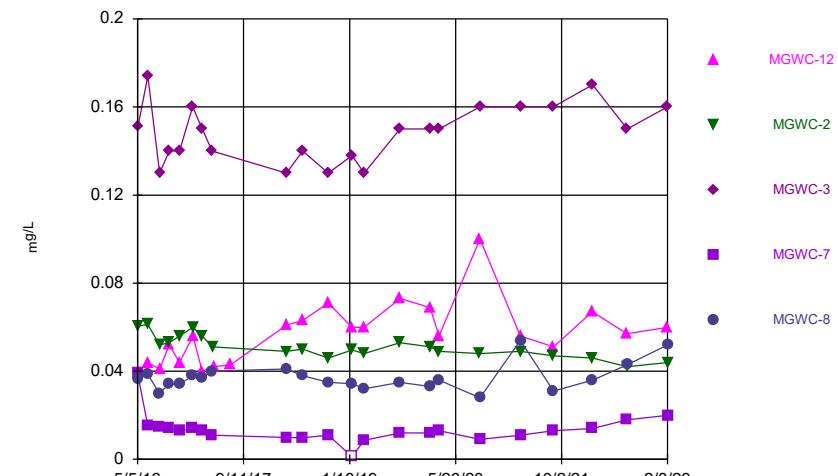
Constituent: Arsenic Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series



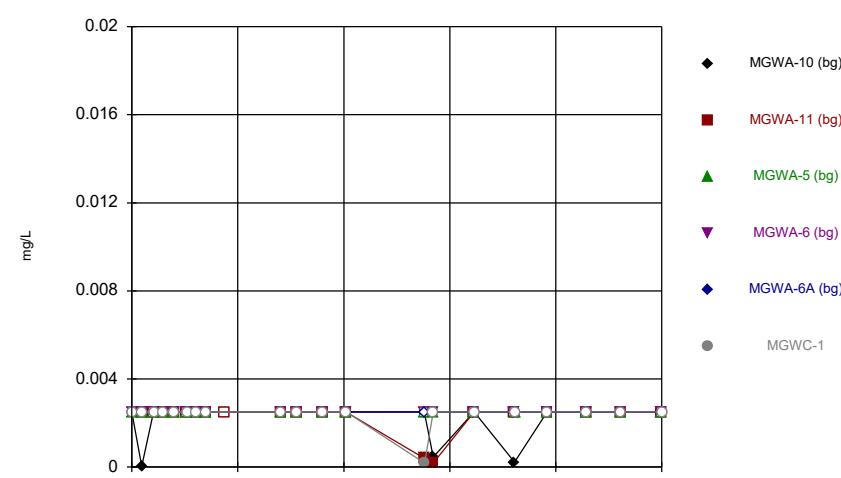
Constituent: Barium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series



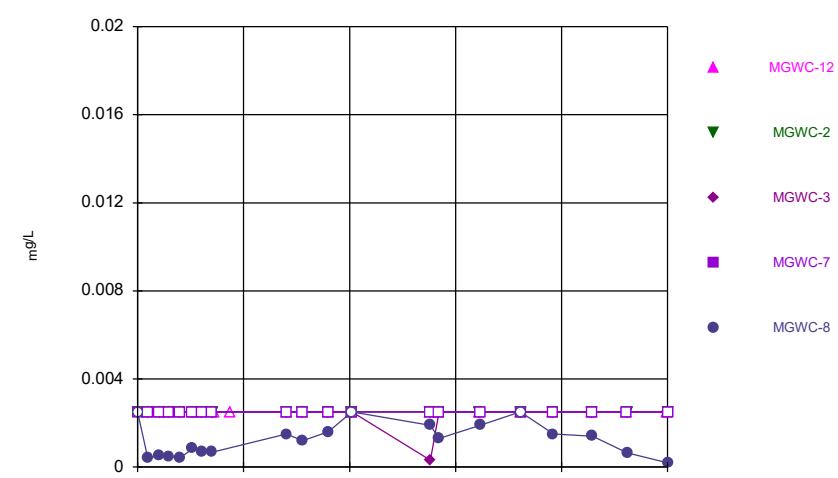
Constituent: Barium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series



Constituent: Beryllium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

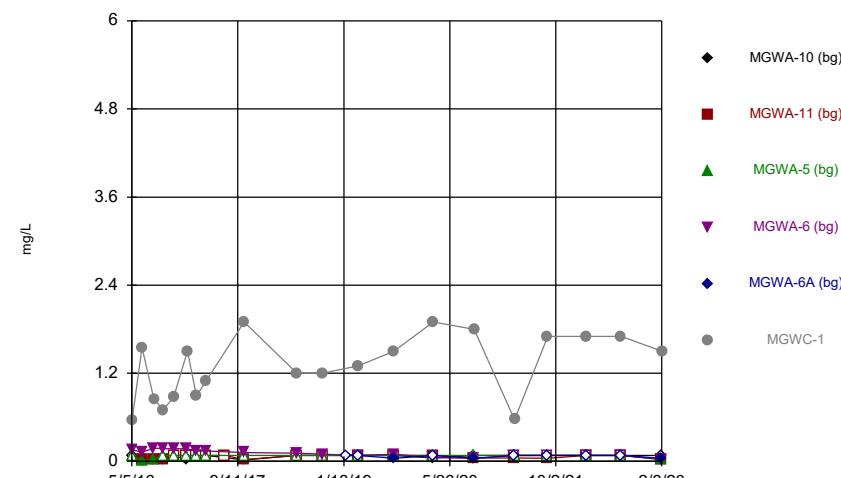
## Time Series



Constituent: Beryllium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

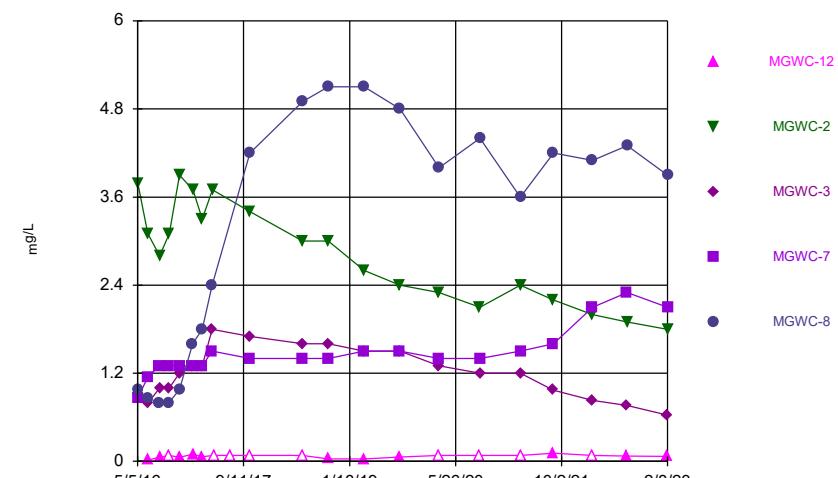
### Time Series



Constituent: Boron Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

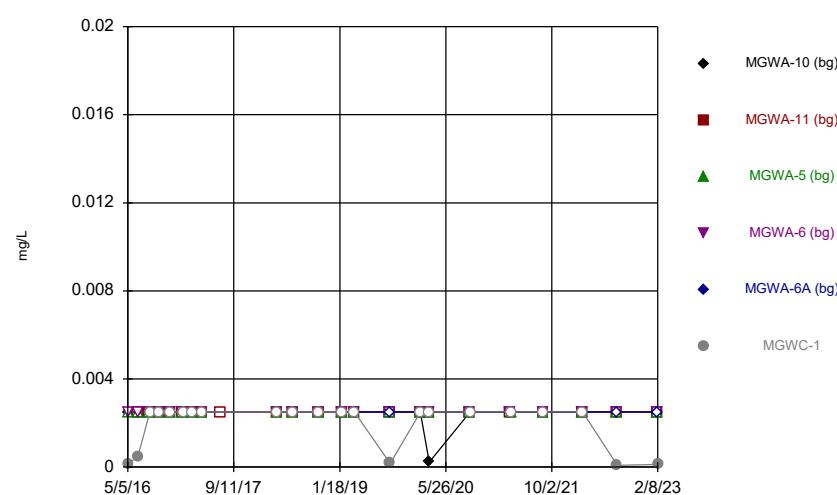
### Time Series



Constituent: Boron Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

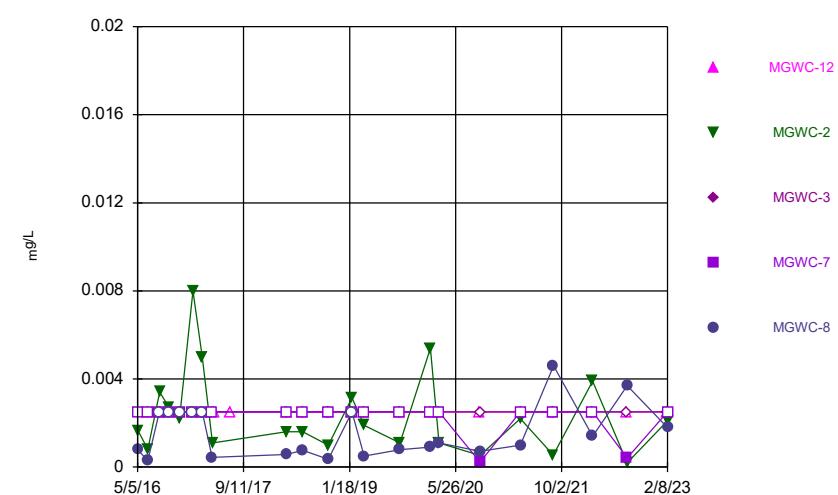
### Time Series



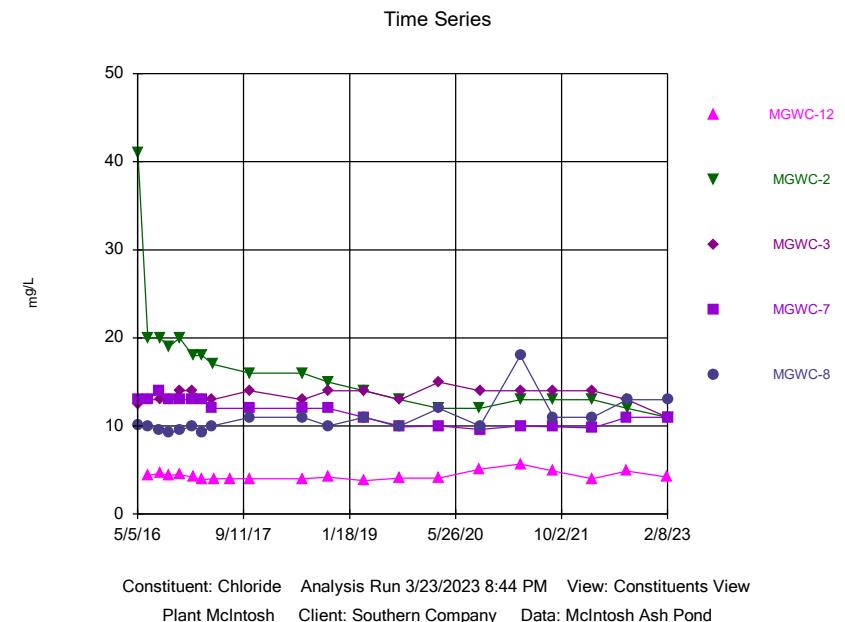
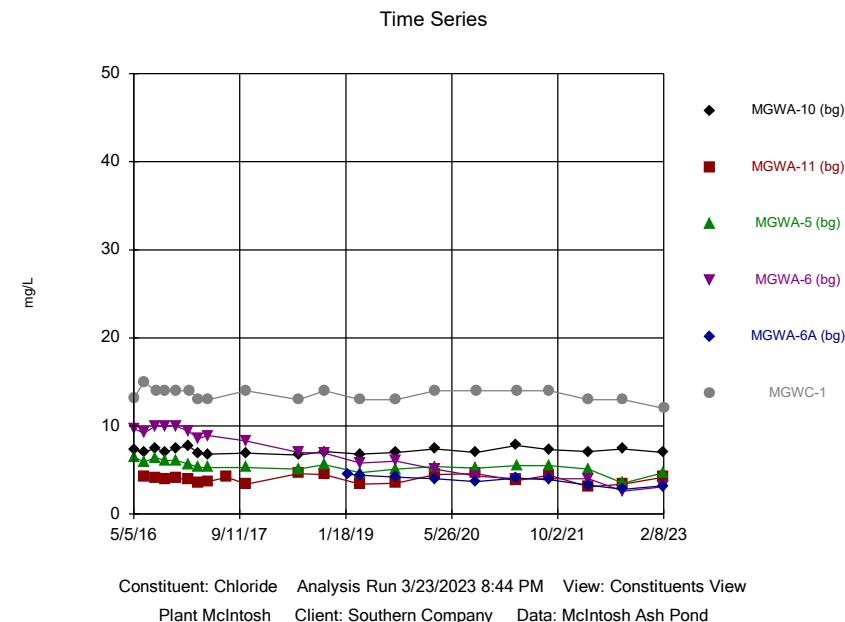
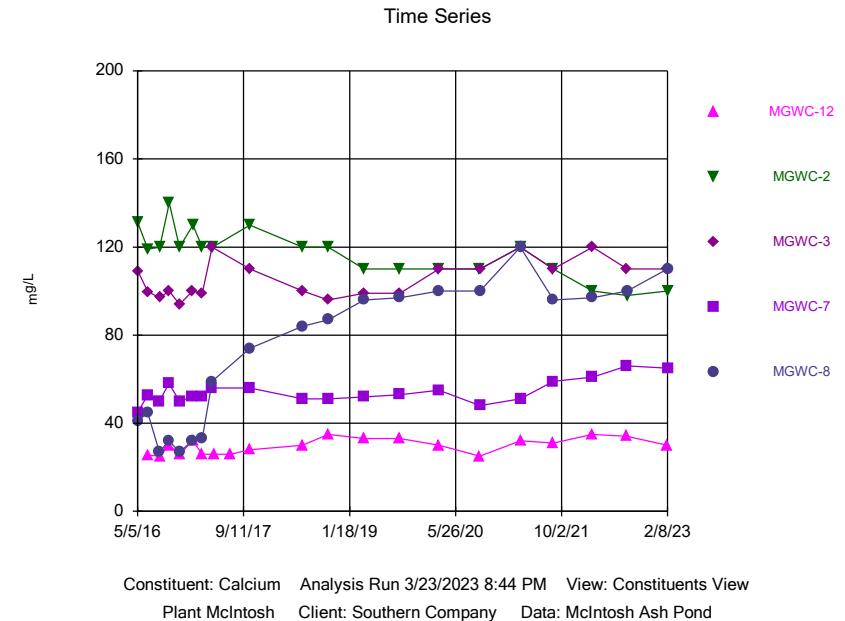
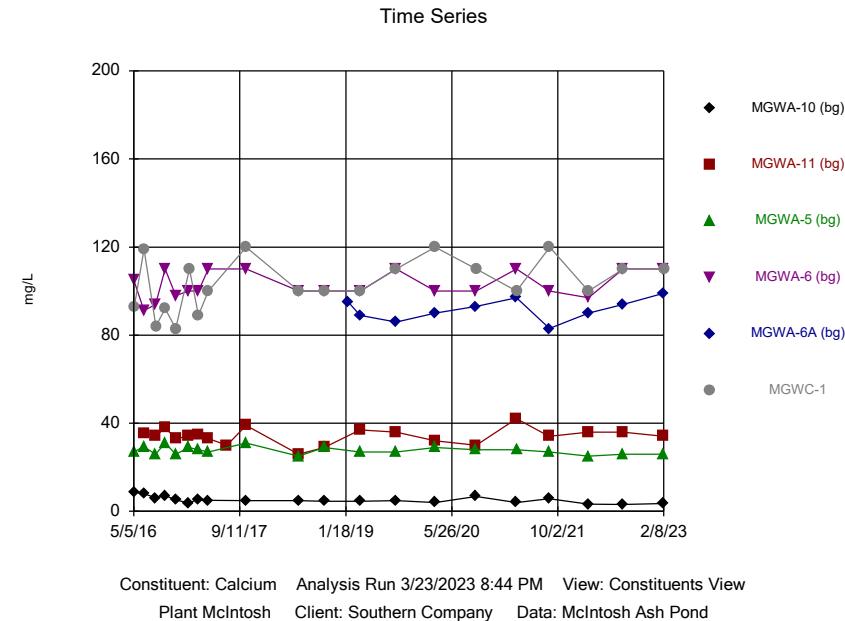
Constituent: Cadmium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

### Time Series

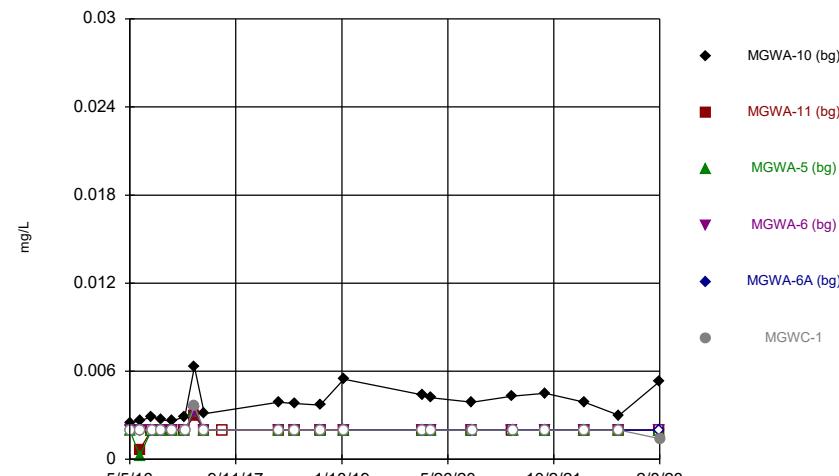


Constituent: Cadmium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

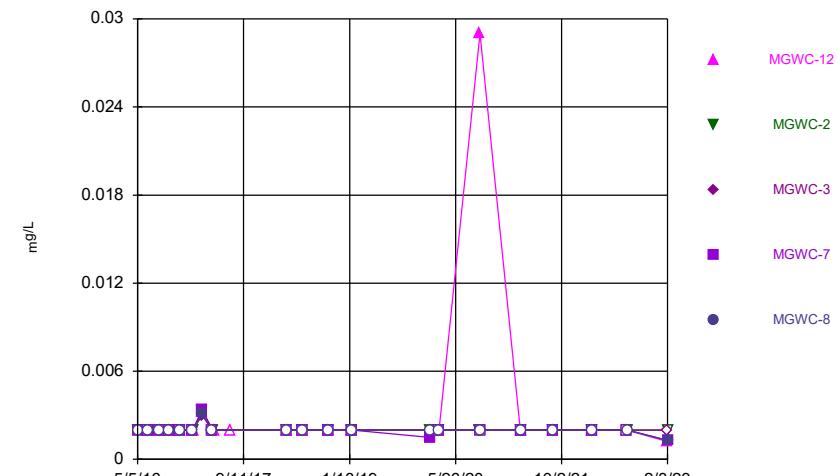
### Time Series



Constituent: Chromium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

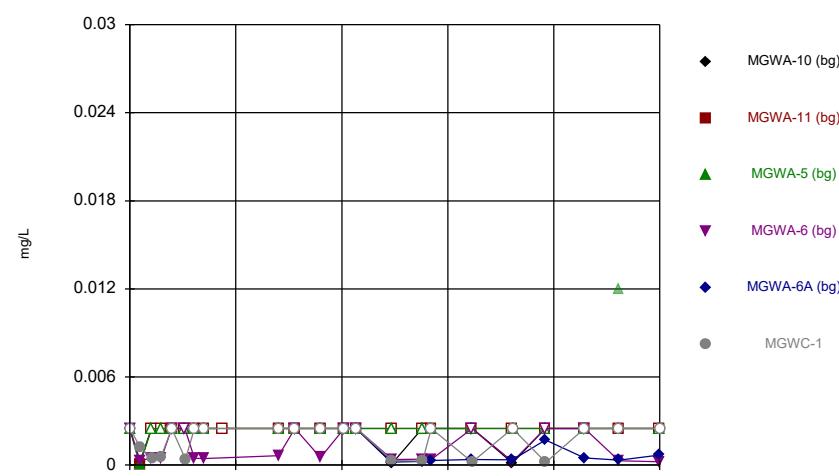
### Time Series



Constituent: Chromium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

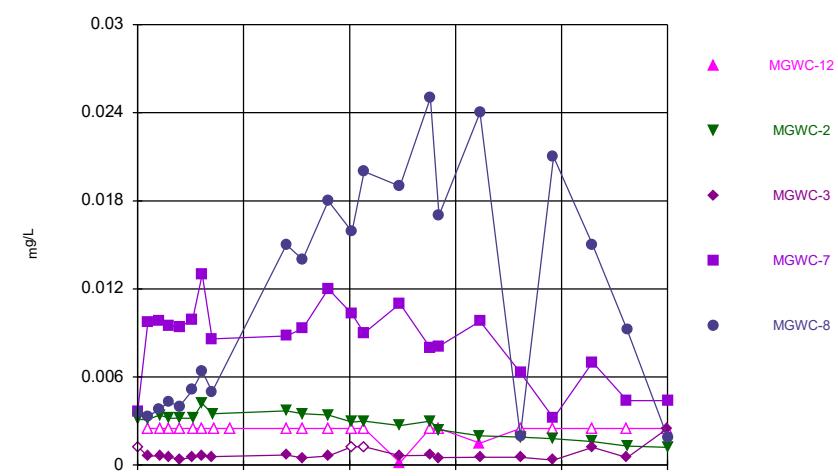
### Time Series



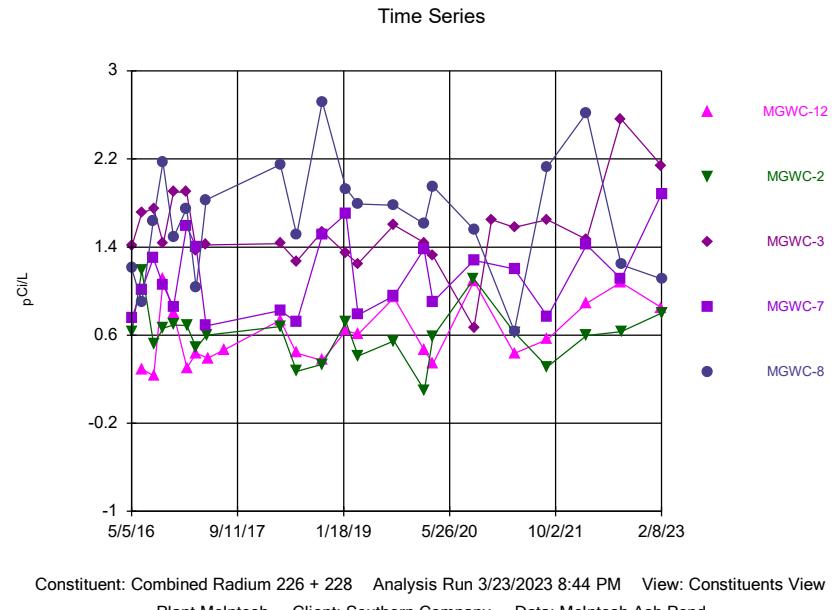
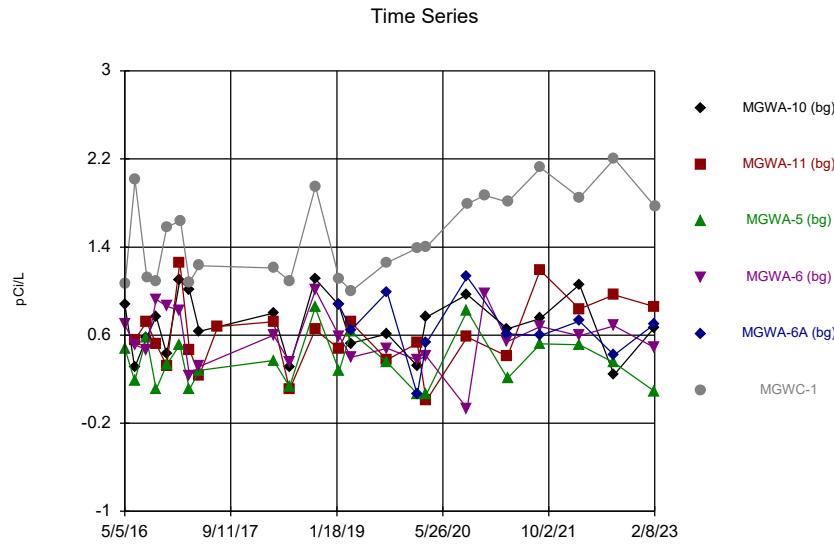
Constituent: Cobalt Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

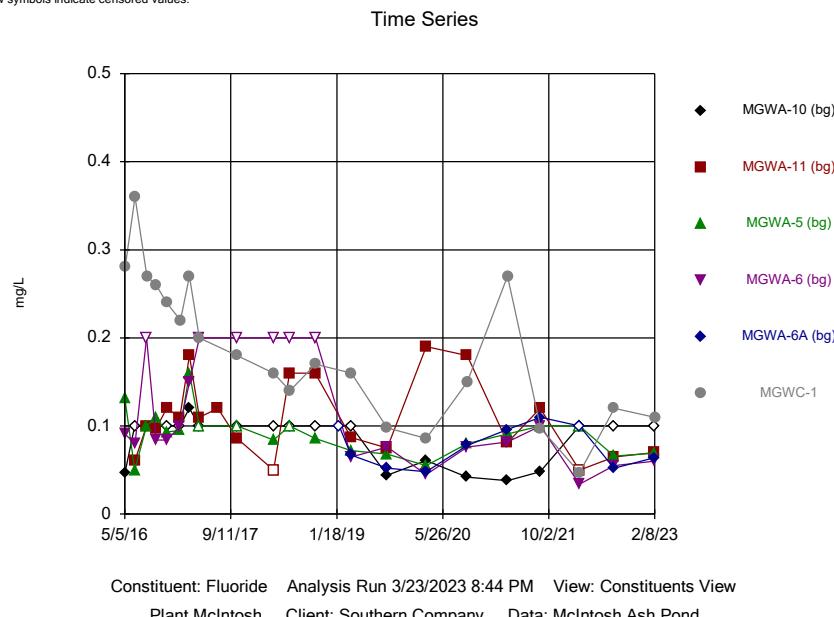
### Time Series



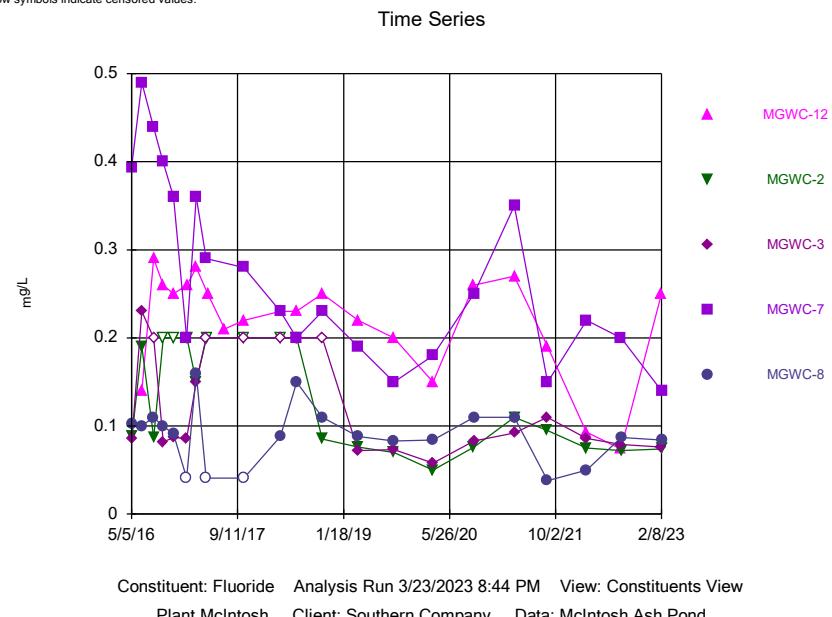
Constituent: Cobalt Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

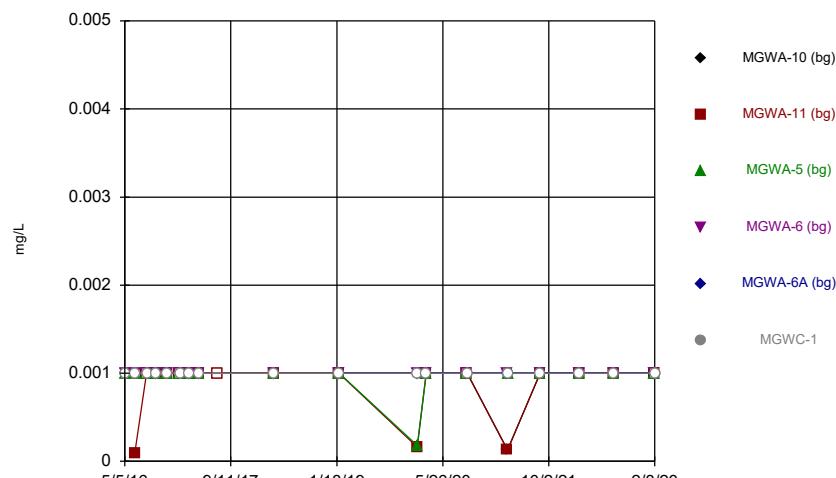


Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

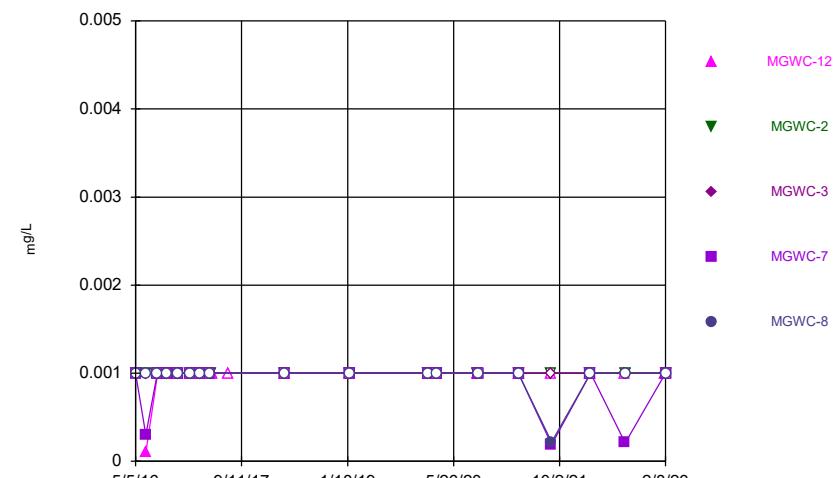
### Time Series



Constituent: Lead Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

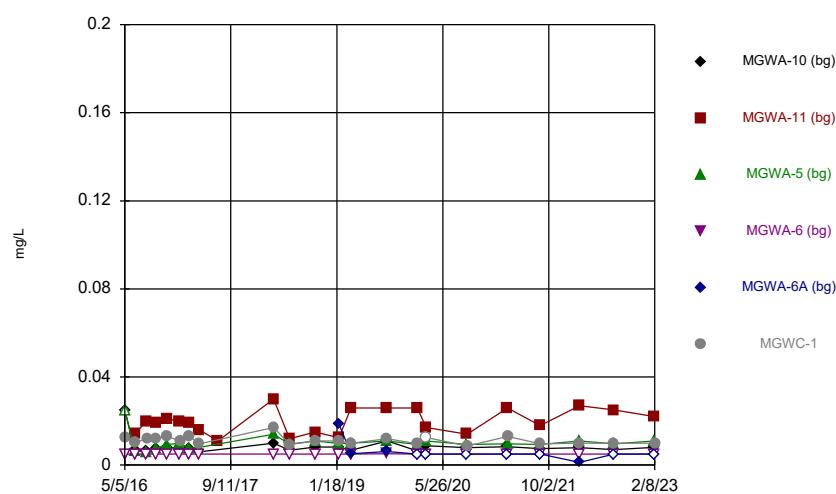
### Time Series



Constituent: Lead Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

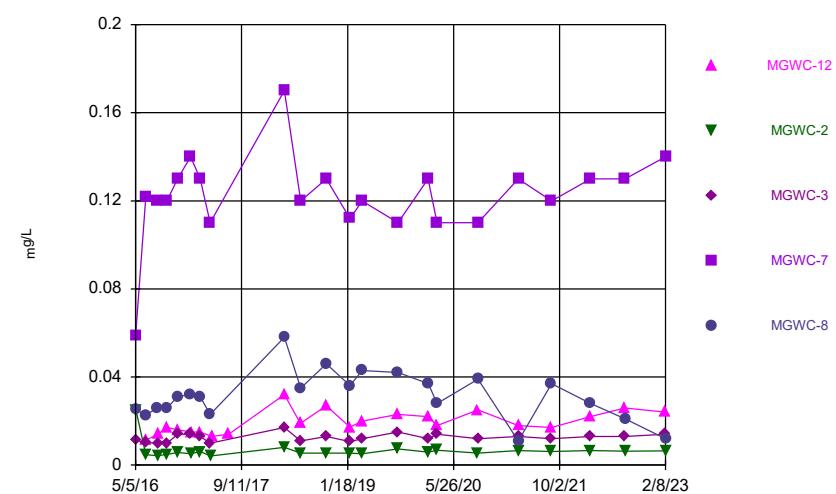
### Time Series



Constituent: Lithium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

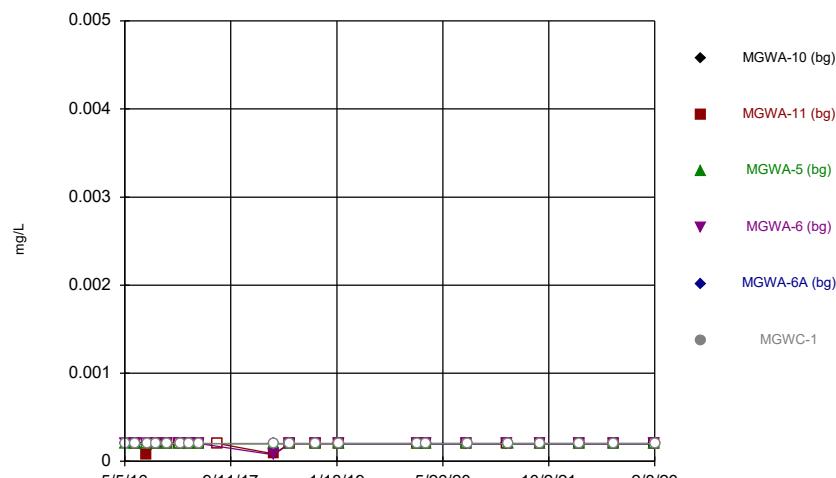
### Time Series



Constituent: Lithium Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

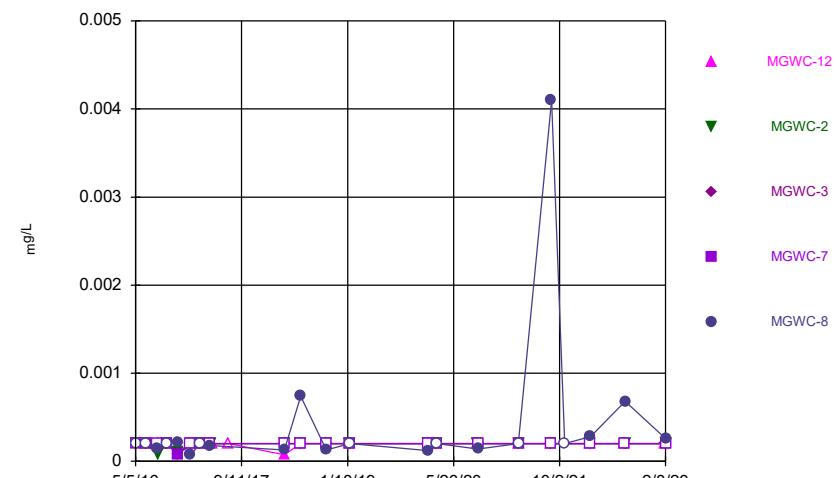
Time Series



Constituent: Mercury Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

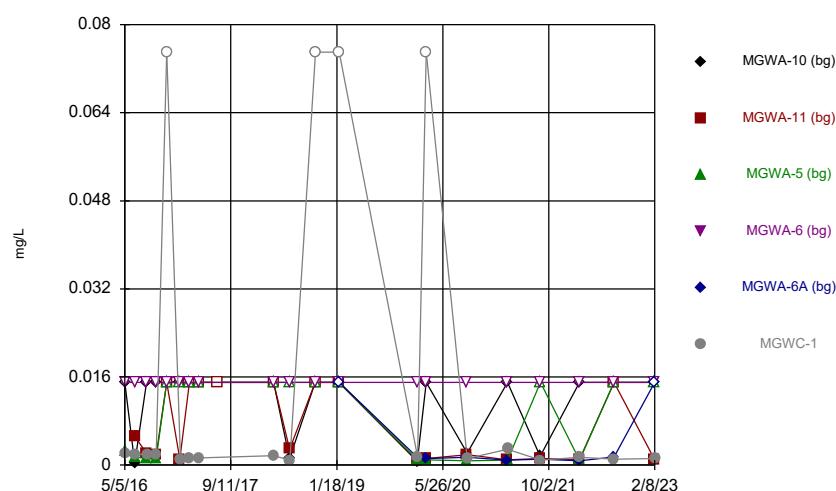
Time Series



Constituent: Mercury Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

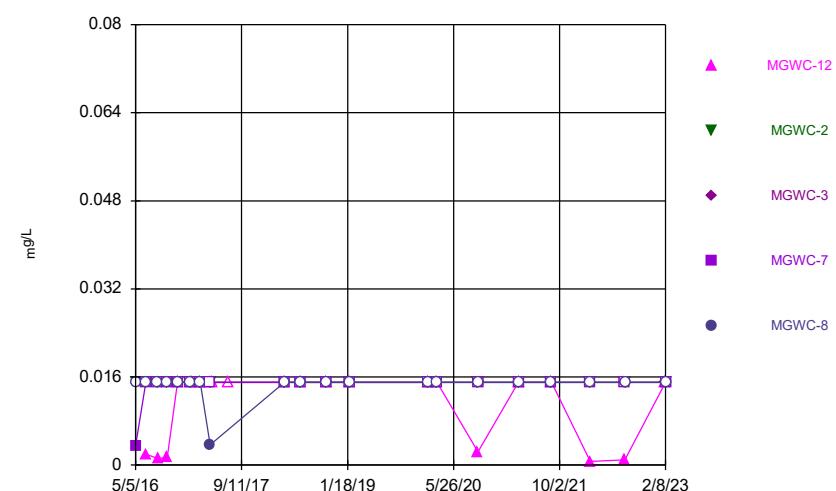
Time Series



Constituent: Molybdenum Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

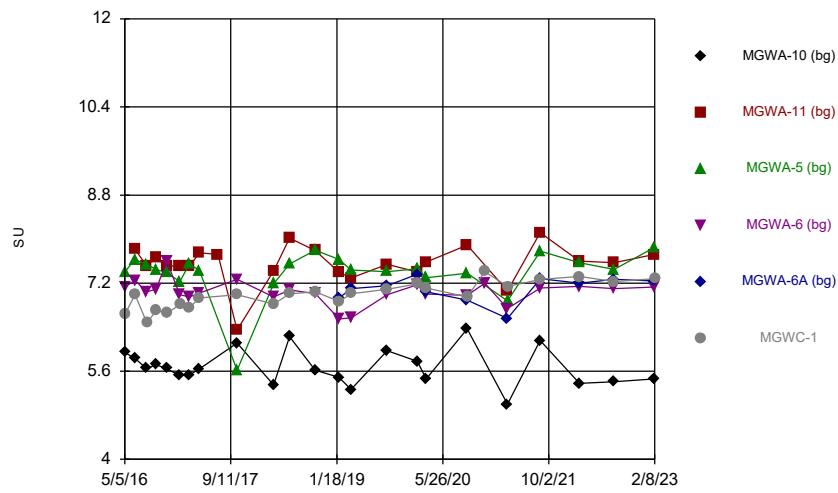
Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

Time Series



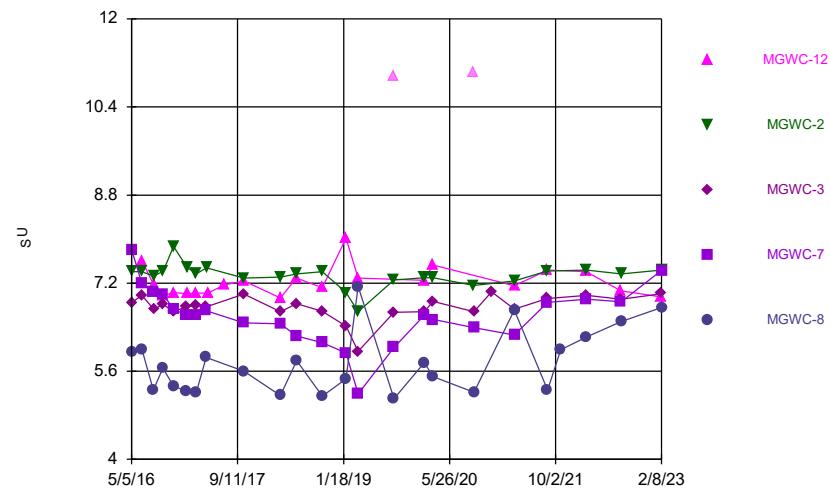
Constituent: Molybdenum Analysis Run 3/23/2023 8:44 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series



Constituent: pH Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

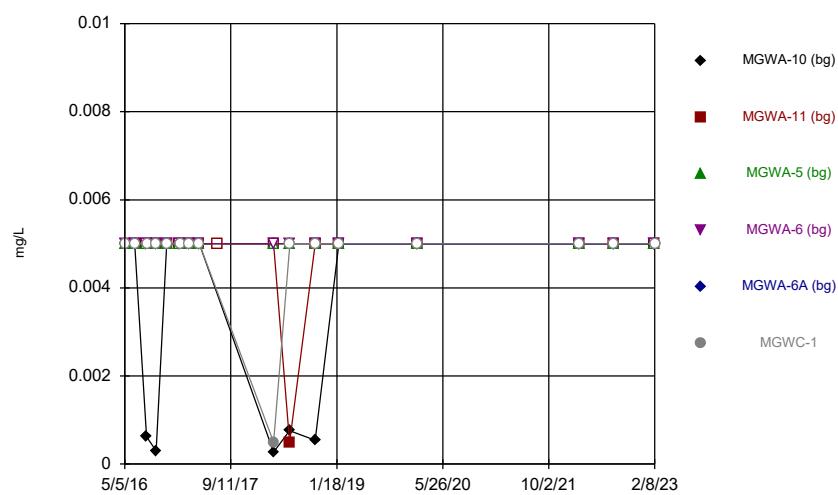
## Time Series



Constituent: pH Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

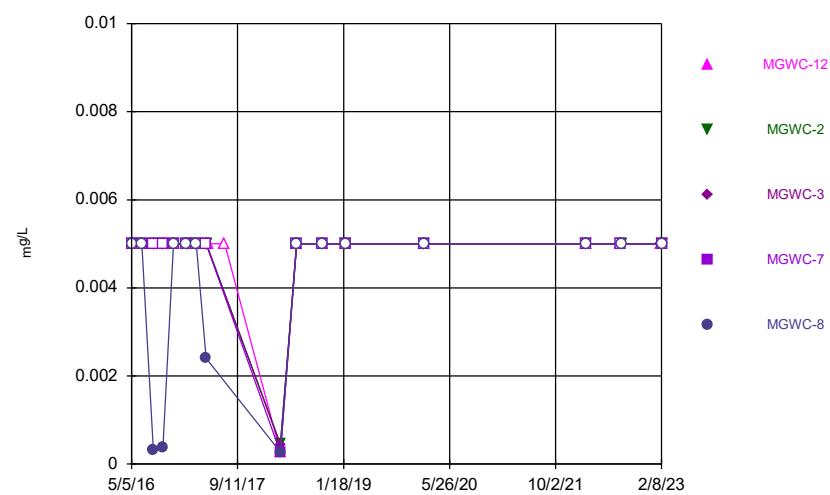
## Time Series



Constituent: Selenium Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

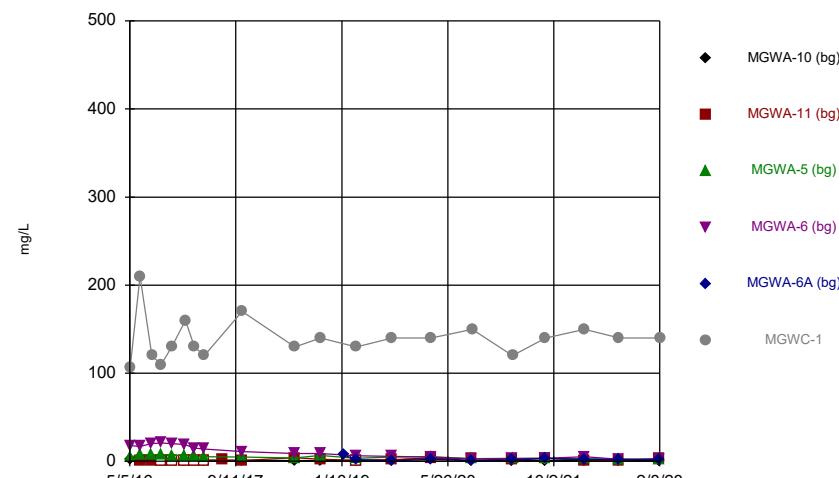
## Time Series



Constituent: Selenium Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

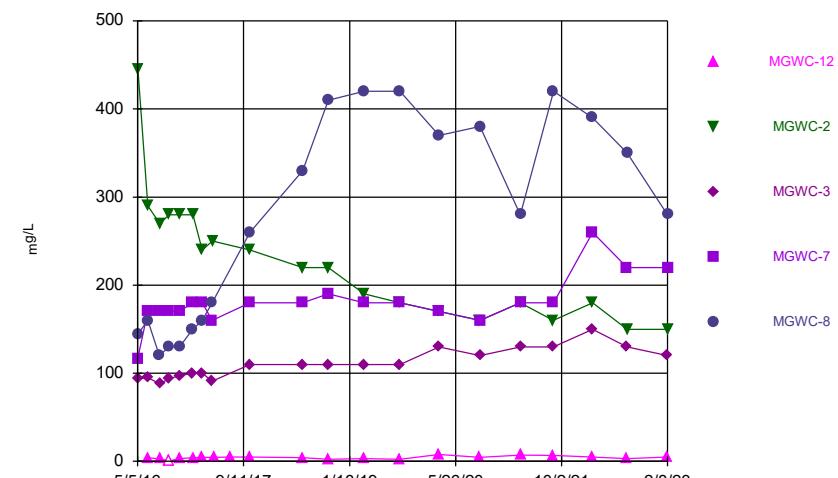
### Time Series



Constituent: Sulfate Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

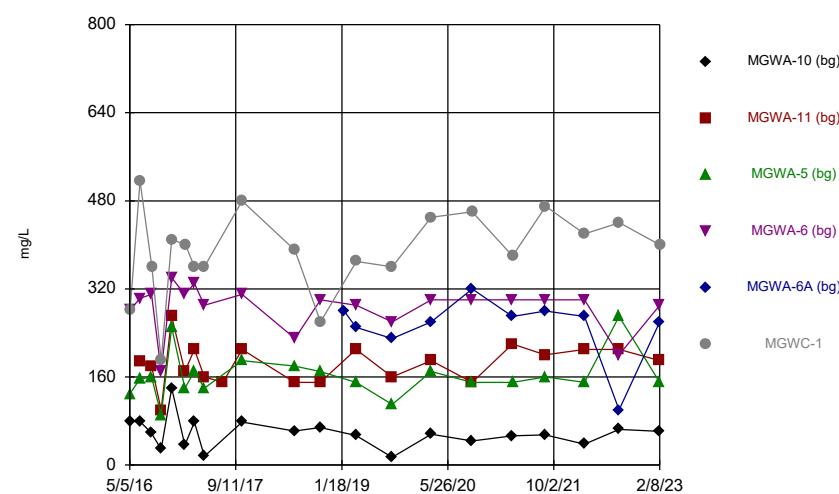
### Time Series



Constituent: Sulfate Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG

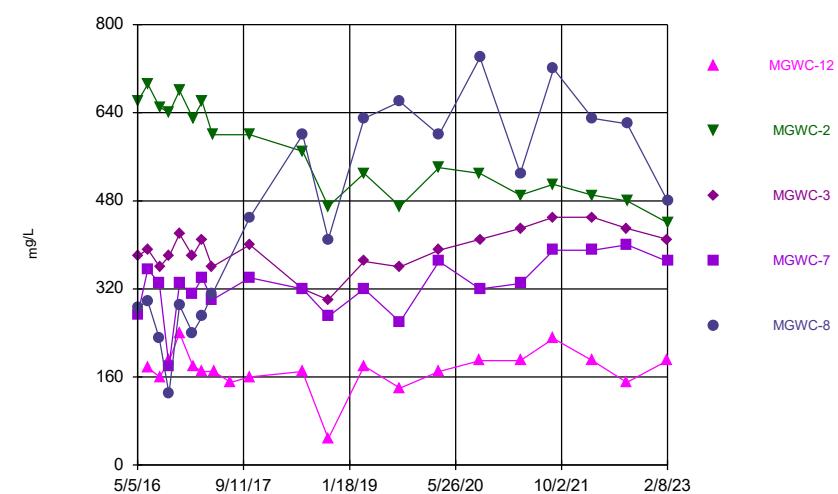
### Time Series



Constituent: TDS Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG

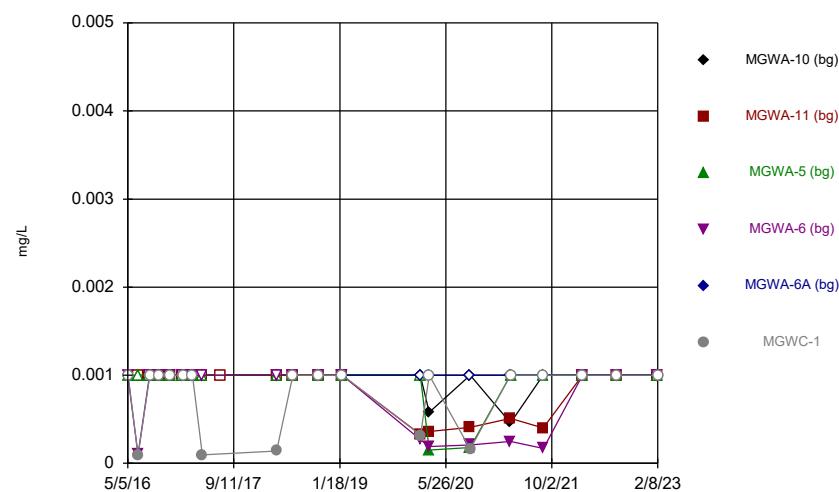
### Time Series



Constituent: TDS Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

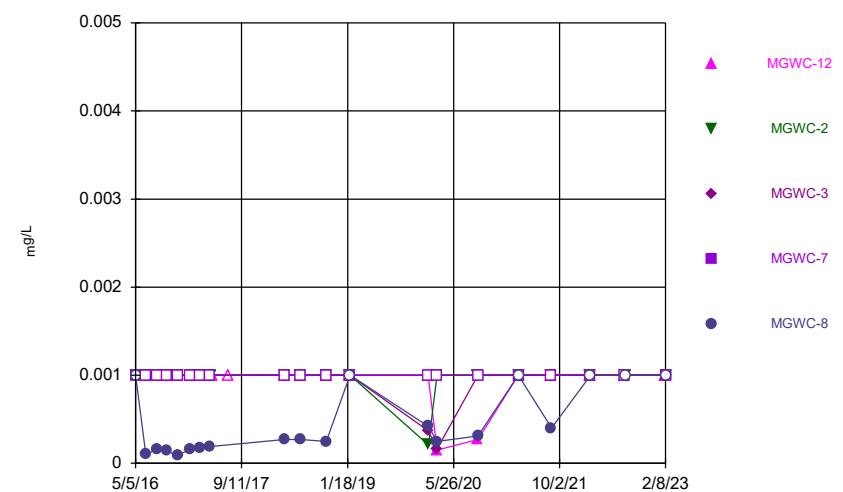
Time Series



Constituent: Thallium Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 3/23/2023 8:45 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series

Constituent: Antimony (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 0.00112 (J)  |              | 0.0012 (J)  | <0.002      |              |        |
| 5/6/2016   |              |              |             |             |              | <0.002 |
| 6/20/2016  | <0.002       | <0.002       | <0.002      |             |              |        |
| 6/21/2016  |              |              |             | 0.0017 (J)  |              | <0.002 |
| 8/15/2016  | <0.002       | <0.002       | <0.002      | <0.002      |              |        |
| 8/16/2016  |              |              |             |             |              | <0.002 |
| 9/28/2016  | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 11/16/2016 | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 1/16/2017  | <0.002       |              |             |             |              |        |
| 1/17/2017  |              | <0.002       | <0.002      | <0.002      |              |        |
| 1/19/2017  |              |              |             |             |              | <0.002 |
| 3/2/2017   | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 4/18/2017  | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 7/13/2017  |              | <0.002       |             |             |              |        |
| 3/29/2018  | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 1/28/2019  | <0.002       | <0.002       |             |             |              |        |
| 1/29/2019  |              |              | <0.002      | <0.002      | <0.002       | <0.002 |
| 1/28/2020  | 0.00049 (J)  | <0.002       | <0.002      | <0.002      | <0.002       |        |
| 1/29/2020  |              |              |             |             |              | <0.002 |
| 3/9/2020   | <0.002       | <0.002       |             |             |              |        |
| 3/10/2020  |              |              | <0.002      | <0.002      | <0.002       | <0.002 |
| 9/16/2020  | 0.00098 (J)  | 0.0011 (J)   | <0.002      | <0.002      | <0.002       |        |
| 9/17/2020  |              |              |             |             |              | <0.002 |
| 3/23/2021  | <0.002       | <0.002       |             | <0.002      | <0.002       |        |
| 3/24/2021  |              |              | <0.002      |             |              | <0.002 |
| 8/23/2021  | <0.002       | 0.00052 (J)  |             |             |              |        |
| 8/24/2021  |              |              | <0.002      | <0.002      | <0.002       |        |
| 8/25/2021  |              |              |             |             |              | <0.002 |
| 2/22/2022  | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       | <0.002 |
| 8/2/2022   | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       |        |
| 8/3/2022   |              |              |             |             |              | <0.002 |
| 2/7/2023   | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       |        |
| 2/8/2023   |              |              |             |             |              | <0.002 |

## Time Series

Constituent: Antimony (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3     | MGWC-7      | MGWC-8 |
|------------|------------|--------|------------|-------------|--------|
| 5/5/2016   |            |        |            | 0.00197 (J) | <0.002 |
| 5/6/2016   |            | <0.002 | <0.002     |             |        |
| 6/21/2016  | 0.0004 (J) | <0.002 | 0.0003 (J) | <0.002      | <0.002 |
| 8/15/2016  |            |        |            | <0.002      | <0.002 |
| 8/16/2016  | <0.002     | <0.002 | <0.002     |             |        |
| 9/28/2016  |            |        |            | <0.002      | <0.002 |
| 9/29/2016  | <0.002     | <0.002 | <0.002     |             |        |
| 11/16/2016 | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 1/17/2017  |            |        | <0.002     | <0.002      | <0.002 |
| 1/18/2017  | <0.002     | <0.002 |            |             |        |
| 3/2/2017   | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 4/18/2017  |            |        | <0.002     | <0.002      | <0.002 |
| 4/19/2017  |            | <0.002 |            |             |        |
| 4/25/2017  | <0.002     |        |            |             |        |
| 7/13/2017  | <0.002     |        |            |             |        |
| 3/29/2018  | <0.002     |        | <0.002     |             |        |
| 3/30/2018  |            | <0.002 | <0.002     |             | <0.002 |
| 1/29/2019  | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 1/28/2020  | <0.002     |        |            | <0.002      |        |
| 1/29/2020  |            | <0.002 | <0.002     |             | <0.002 |
| 3/10/2020  | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 9/16/2020  | <0.002     | <0.002 |            |             |        |
| 9/17/2020  |            |        | <0.002     | <0.002      | <0.002 |
| 3/24/2021  | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 8/24/2021  |            | <0.002 | <0.002     |             |        |
| 8/25/2021  | <0.002     |        |            | <0.002      | <0.002 |
| 2/22/2022  | <0.002     |        |            |             |        |
| 2/23/2022  |            | <0.002 | <0.002     | <0.002      | <0.002 |
| 8/2/2022   | 0.0015 (J) |        |            |             |        |
| 8/3/2022   |            |        | <0.002     | <0.002      |        |
| 8/4/2022   |            | <0.002 |            |             | <0.002 |
| 2/7/2023   | <0.002     |        | <0.002     |             |        |
| 2/8/2023   |            | <0.002 |            | 0.00051 (J) | <0.002 |

## Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.001       |              | <0.001      | 0.0343      |              |             |
| 5/6/2016   |              |              |             |             |              | 0.00299 (J) |
| 6/20/2016  | 0.00036 (J)  | 0.003 (J)    | 0.00014 (J) |             |              |             |
| 6/21/2016  |              |              |             | 0.0352      |              | 0.0047 (J)  |
| 8/15/2016  | 0.00096 (J)  | 0.0033       | <0.001      | 0.035       |              |             |
| 8/16/2016  |              |              |             |             |              | 0.003       |
| 9/28/2016  | 0.00095 (J)  | 0.0026       | 0.00062 (J) | 0.033       |              | 0.0036      |
| 11/16/2016 | <0.001       | 0.0013       | <0.001      | 0.02        |              | 0.003       |
| 1/16/2017  | <0.001       |              |             |             |              |             |
| 1/17/2017  |              | <0.00125     | <0.001      | 0.022       |              |             |
| 1/19/2017  |              |              |             |             |              | 0.0024      |
| 3/2/2017   | <0.001       | 0.0015       | <0.001      | 0.021       |              | 0.0027      |
| 4/18/2017  | <0.001       | 0.00071 (J)  | <0.001      | 0.018       |              | 0.0024      |
| 7/13/2017  |              | 0.00066 (J)  |             |             |              |             |
| 3/29/2018  | <0.001       | 0.002        | <0.001      | 0.014       |              | 0.0023      |
| 6/12/2018  | <0.001       | 0.0017       | <0.001      |             |              |             |
| 6/13/2018  |              |              |             | 0.011       |              | 0.0021      |
| 10/9/2018  | <0.001       | 0.00072 (J)  | <0.001      |             |              |             |
| 10/10/2018 |              |              |             | 0.014       |              | 0.0024      |
| 1/28/2019  | <0.001       | <0.00125     |             |             |              |             |
| 1/29/2019  |              |              | <0.001      | 0.00972     | 0.0118       | 0.00255     |
| 3/25/2019  | <0.001       | 0.0022       | 0.00069 (J) |             | 0.0012 (J)   |             |
| 3/26/2019  |              |              |             | 0.0097      |              | 0.002       |
| 9/10/2019  | <0.001       | 0.0018       | 0.00039 (J) | 0.0085      | 0.0021       | 0.0018      |
| 1/28/2020  | <0.001       | 0.0014       | 0.00036 (J) | 0.0063      | 0.0028       |             |
| 1/29/2020  |              |              |             |             |              | 0.0021      |
| 3/9/2020   | <0.001       | 0.00073 (J)  |             |             |              |             |
| 3/10/2020  |              |              | 0.00031 (J) | 0.0093      | 0.0029       | 0.0019      |
| 9/16/2020  | <0.001       | 0.00069 (J)  | 0.00035 (J) | 0.0089      | 0.011        |             |
| 9/17/2020  |              |              |             |             |              | 0.002       |
| 3/23/2021  | 0.00033 (J)  | 0.0023       |             | 0.0089      | 0.0098       |             |
| 3/24/2021  |              |              | 0.00033 (J) |             |              | 0.0024      |
| 8/23/2021  | <0.001       | 0.00077 (J)  |             |             |              |             |
| 8/24/2021  |              |              | <0.001      | 0.0087      | 0.0021       |             |
| 8/25/2021  |              |              |             |             |              | 0.00092 (J) |
| 2/22/2022  | <0.001       | 0.0024       | 0.00052 (J) | 0.011       | 0.013        | 0.0014      |
| 8/2/2022   | <0.001       | 0.0022       | <0.001      | 0.0093      | 0.002        |             |
| 8/3/2022   |              |              |             |             |              | 0.0015      |
| 2/7/2023   | <0.001       | 0.0025       | <0.001      | 0.011       | 0.013        |             |
| 2/8/2023   |              |              |             |             |              | 0.0016      |

## Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             | 0.00143 (J) | <0.001      |
| 5/6/2016   |             | <0.001      | 0.00154 (J) |             |             |
| 6/21/2016  | 0.0015 (J)  | <0.001      | 0.0016 (J)  | 0.0009 (J)  | <0.001      |
| 8/15/2016  |             |             |             | 0.0012 (J)  | <0.001      |
| 8/16/2016  | 0.00082 (J) | <0.001      | 0.0017      |             |             |
| 9/28/2016  |             |             |             | 0.00084 (J) | <0.001      |
| 9/29/2016  | 0.0019      | <0.001      | 0.0013      |             |             |
| 11/16/2016 | 0.0017      | 0.00068 (J) | 0.0014      | <0.001      | <0.001      |
| 1/17/2017  |             |             | 0.00056 (J) | <0.001      | <0.001      |
| 1/18/2017  | 0.00096 (J) | <0.001      |             |             |             |
| 3/2/2017   | 0.00082 (J) | 0.00065 (J) | 0.0018      | 0.0009 (J)  | <0.001      |
| 4/18/2017  |             |             | 0.0018      | 0.0005 (J)  | 0.00059 (J) |
| 4/19/2017  |             | <0.001      |             |             |             |
| 4/25/2017  | <0.001      |             |             |             |             |
| 7/13/2017  | 0.00047 (J) |             |             |             |             |
| 3/29/2018  | 0.00053 (J) |             |             | 0.00066 (J) |             |
| 3/30/2018  |             | <0.001      | 0.0017      |             | <0.001      |
| 6/12/2018  | 0.00063 (J) |             |             |             |             |
| 6/13/2018  |             | <0.001      | 0.0015      | <0.001      | <0.001      |
| 10/10/2018 | 0.00098 (J) | <0.001      | 0.0016      | <0.001      | <0.001      |
| 1/29/2019  | <0.001      | <0.001      | 0.00143     | <0.001      | <0.001      |
| 3/26/2019  | 0.00079 (J) | <0.001      | 0.0012 (J)  | <0.001      | <0.001      |
| 9/10/2019  | 0.0011      | 0.00036 (J) | 0.0017      | 0.00074 (J) | 0.00056 (J) |
| 1/28/2020  | 0.00051 (J) |             |             | 0.00046 (J) |             |
| 1/29/2020  |             | 0.0004 (J)  | 0.0017      |             | 0.00047 (J) |
| 3/10/2020  | <0.001      | <0.001      | <0.005      | <0.001      | <0.001      |
| 9/16/2020  | <0.001      | <0.001      |             |             |             |
| 9/17/2020  |             |             | 0.0015      | 0.00045 (J) | <0.001      |
| 3/24/2021  | <0.001      | <0.001      | 0.0018      | 0.00046 (J) | 0.00099 (J) |
| 8/24/2021  |             | <0.001      | 0.0014      |             |             |
| 8/25/2021  | <0.001      |             |             | 0.00055 (J) | <0.001      |
| 2/22/2022  | 0.00089 (J) |             |             |             |             |
| 2/23/2022  |             | <0.001      | 0.0016      | 0.0004 (J)  | 0.00044 (J) |
| 8/2/2022   | 0.0015      |             |             |             |             |
| 8/3/2022   |             |             | 0.0016      | 0.00052 (J) |             |
| 8/4/2022   |             | <0.001      |             |             | 0.00075 (J) |
| 2/7/2023   | 0.00098 (J) |             | 0.0018      |             |             |
| 2/8/2023   |             | <0.001      |             | <0.001      | 0.001       |

## Time Series

Constituent: Barium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 0.0376       |              |             | 0.0295      | 0.0595       |        |
| 5/6/2016   |              |              |             |             |              | 0.11   |
| 6/20/2016  | 0.033        | 0.091        | 0.031       |             |              |        |
| 6/21/2016  |              |              |             | 0.0539      |              | 0.165  |
| 8/15/2016  | 0.029        | 0.11         | 0.032       | 0.053       |              |        |
| 8/16/2016  |              |              |             |             |              | 0.094  |
| 9/28/2016  | 0.032        | 0.12         | 0.038       | 0.06        |              | 0.1    |
| 11/16/2016 | 0.027        | 0.11         | 0.035       | 0.052       |              | 0.096  |
| 1/16/2017  | 0.022        |              |             |             |              |        |
| 1/17/2017  |              | 0.11         | 0.039       | 0.051       |              |        |
| 1/19/2017  |              |              |             |             |              | 0.12   |
| 3/2/2017   | 0.027        | 0.11         | 0.037       | 0.043       |              | 0.097  |
| 4/18/2017  | 0.024        | 0.1          | 0.035       | 0.042       |              | 0.092  |
| 7/13/2017  |              | 0.087        |             |             |              |        |
| 3/29/2018  | 0.021        | 0.11         | 0.037       | 0.043       |              | 0.095  |
| 6/12/2018  | 0.025        | 0.068        | 0.036       |             |              |        |
| 6/13/2018  |              |              |             | 0.037       |              | 0.096  |
| 10/9/2018  | 0.024        | 0.072        | 0.034       |             |              |        |
| 10/10/2018 |              |              |             | 0.037       |              | 0.095  |
| 1/28/2019  | 0.0249       | 0.0834       |             |             |              |        |
| 1/29/2019  |              |              | 0.0363      | 0.0393      | 0.0421       | 0.107  |
| 3/25/2019  | 0.023        | 0.11         | 0.035       |             | 0.044        |        |
| 3/26/2019  |              |              |             | 0.033       |              | 0.096  |
| 9/10/2019  | 0.031        | 0.13         | 0.035       | 0.04        | 0.042        | 0.11   |
| 1/28/2020  | 0.025        | 0.13         | 0.034       | 0.034       | 0.037        |        |
| 1/29/2020  |              |              |             |             |              | 0.11   |
| 3/9/2020   | 0.023        | 0.094        |             |             |              |        |
| 3/10/2020  |              |              | 0.043       | 0.031       | 0.035        | 0.13   |
| 9/16/2020  | 0.025        | 0.078        | 0.037       | 0.028       | 0.034        |        |
| 9/17/2020  |              |              |             |             |              | 0.11   |
| 3/23/2021  | 0.02         | 0.13         |             | 0.028       | 0.031        |        |
| 3/24/2021  |              |              | 0.032       |             |              | 0.1    |
| 8/23/2021  | 0.024        | 0.096        |             |             |              |        |
| 8/24/2021  |              |              | 0.027       | 0.026       | 0.026        |        |
| 8/25/2021  |              |              |             |             |              | 0.11   |
| 2/22/2022  | 0.022        | 0.13         | 0.038       | 0.03        | 0.034        | 0.11   |
| 8/2/2022   | 0.018        | 0.12         | 0.031       | 0.034       | 0.023        |        |
| 8/3/2022   |              |              |             |             |              | 0.11   |
| 2/7/2023   | 0.021        | 0.1          | 0.028       | 0.03        | 0.032        |        |
| 2/8/2023   |              |              |             |             |              | 0.1    |

## Time Series

Constituent: Barium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7     | MGWC-8 |
|------------|---------|--------|--------|------------|--------|
| 5/5/2016   |         |        |        | 0.039      | 0.0364 |
| 5/6/2016   |         | 0.0605 | 0.151  |            |        |
| 6/21/2016  | 0.0439  | 0.0613 | 0.174  | 0.0152     | 0.0386 |
| 8/15/2016  |         |        |        | 0.015      | 0.03   |
| 8/16/2016  | 0.041   | 0.052  | 0.13   |            |        |
| 9/28/2016  |         |        |        | 0.014      | 0.034  |
| 9/29/2016  | 0.052   | 0.053  | 0.14   |            |        |
| 11/16/2016 | 0.044   | 0.056  | 0.14   | 0.013      | 0.034  |
| 1/17/2017  |         |        | 0.16   | 0.014      | 0.038  |
| 1/18/2017  | 0.056   | 0.06   |        |            |        |
| 3/2/2017   | 0.04    | 0.056  | 0.15   | 0.013      | 0.037  |
| 4/18/2017  |         |        | 0.14   | 0.011      | 0.04   |
| 4/19/2017  |         | 0.051  |        |            |        |
| 4/25/2017  | 0.042   |        |        |            |        |
| 7/13/2017  | 0.043   |        |        |            |        |
| 3/29/2018  | 0.061   |        |        | 0.01       |        |
| 3/30/2018  |         | 0.049  | 0.13   |            | 0.041  |
| 6/12/2018  | 0.063   |        |        |            |        |
| 6/13/2018  |         | 0.05   | 0.14   | 0.0098     | 0.038  |
| 10/10/2018 | 0.071   | 0.046  | 0.13   | 0.011      | 0.035  |
| 1/29/2019  | 0.06    | 0.0496 | 0.138  | <0.0025    | 0.0344 |
| 3/26/2019  | 0.06    | 0.048  | 0.13   | 0.0086     | 0.032  |
| 9/10/2019  | 0.073   | 0.053  | 0.15   | 0.012      | 0.035  |
| 1/28/2020  | 0.069   |        |        | 0.012      |        |
| 1/29/2020  |         | 0.051  | 0.15   |            | 0.033  |
| 3/10/2020  | 0.056   | 0.049  | 0.15   | 0.013      | 0.036  |
| 9/16/2020  | 0.1     | 0.048  |        |            |        |
| 9/17/2020  |         |        | 0.16   | 0.0091 (J) | 0.028  |
| 3/24/2021  | 0.056   | 0.049  | 0.16   | 0.011      | 0.054  |
| 8/24/2021  |         | 0.047  | 0.16   |            |        |
| 8/25/2021  | 0.051   |        |        | 0.013      | 0.031  |
| 2/22/2022  | 0.067   |        |        |            |        |
| 2/23/2022  |         | 0.046  | 0.17   | 0.014      | 0.036  |
| 8/2/2022   | 0.057   |        |        |            |        |
| 8/3/2022   |         |        | 0.15   | 0.018      |        |
| 8/4/2022   |         | 0.042  |        |            | 0.043  |
| 2/7/2023   | 0.06    |        | 0.16   |            |        |
| 2/8/2023   |         | 0.044  |        | 0.02       | 0.052  |

## Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.0025      |              | <0.0025     | <0.0025     |              |             |
| 5/6/2016   |              |              |             |             |              | <0.0025     |
| 6/20/2016  | 3.3E-05 (J)  | <0.0025      | <0.0025     |             |              |             |
| 6/21/2016  |              |              |             | <0.0025     |              | <0.0025     |
| 8/15/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              |             |
| 8/16/2016  |              |              |             |             |              | <0.0025     |
| 9/28/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 11/16/2016 | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 1/16/2017  | <0.0025      |              |             |             |              |             |
| 1/17/2017  |              | <0.0025      | <0.0025     | <0.0025     |              |             |
| 1/19/2017  |              |              |             |             |              | <0.0025     |
| 3/2/2017   | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 4/18/2017  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 7/13/2017  |              | <0.0025      |             |             |              |             |
| 3/29/2018  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 6/12/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 6/13/2018  |              |              |             | <0.0025     |              | <0.0025     |
| 10/9/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 10/10/2018 |              |              |             | <0.0025     |              | <0.0025     |
| 1/28/2019  | <0.0025      | <0.0025      |             |             |              |             |
| 1/29/2019  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 1/28/2020  | <0.0025      | 0.0004 (J)   | <0.0025     | <0.0025     | <0.0025      |             |
| 1/29/2020  |              |              |             |             |              | 0.00018 (J) |
| 3/9/2020   | 0.00045 (J)  | 0.00018 (J)  |             |             |              |             |
| 3/10/2020  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 9/16/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |             |
| 9/17/2020  |              |              |             |             |              | <0.0025     |
| 3/23/2021  | 0.00022 (J)  | <0.0025      |             | <0.0025     | <0.0025      |             |
| 3/24/2021  |              |              | <0.0025     |             |              | <0.0025     |
| 8/23/2021  | <0.0025      | <0.0025      |             |             |              |             |
| 8/24/2021  |              |              | <0.0025     | <0.0025     | <0.0025      |             |
| 8/25/2021  |              |              |             |             |              | <0.0025     |
| 2/22/2022  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 8/2/2022   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |             |
| 8/3/2022   |              |              |             |             |              | <0.0025     |
| 2/7/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |             |
| 2/8/2023   |              |              |             |             |              | <0.0025     |

## Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2  | MGWC-3      | MGWC-7  | MGWC-8      |
|------------|---------|---------|-------------|---------|-------------|
| 5/5/2016   |         |         |             | <0.0025 | <0.0025     |
| 5/6/2016   |         | <0.0025 | <0.0025     |         |             |
| 6/21/2016  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0004 (J)  |
| 8/15/2016  |         |         |             | <0.0025 | 0.00053 (J) |
| 8/16/2016  | <0.0025 | <0.0025 | <0.0025     |         |             |
| 9/28/2016  |         |         |             | <0.0025 | 0.00049 (J) |
| 9/29/2016  | <0.0025 | <0.0025 | <0.0025     |         |             |
| 11/16/2016 | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0004 (J)  |
| 1/17/2017  |         |         | <0.0025     | <0.0025 | 0.00084 (J) |
| 1/18/2017  | <0.0025 | <0.0025 |             |         |             |
| 3/2/2017   | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.00068 (J) |
| 4/18/2017  |         |         | <0.0025     | <0.0025 | 0.00067 (J) |
| 4/19/2017  |         | <0.0025 |             |         |             |
| 4/25/2017  | <0.0025 |         |             |         |             |
| 7/13/2017  | <0.0025 |         |             |         |             |
| 3/29/2018  | <0.0025 |         |             | <0.0025 |             |
| 3/30/2018  |         | <0.0025 | <0.0025     |         | 0.0015 (J)  |
| 6/12/2018  | <0.0025 |         |             |         |             |
| 6/13/2018  |         | <0.0025 | <0.0025     | <0.0025 | 0.0012 (J)  |
| 10/10/2018 | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0016 (J)  |
| 1/29/2019  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | <0.0025     |
| 1/28/2020  | <0.0025 |         |             | <0.0025 |             |
| 1/29/2020  |         | <0.0025 | 0.00031 (J) |         | 0.0019      |
| 3/10/2020  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0013 (J)  |
| 9/16/2020  | <0.0025 | <0.0025 |             |         |             |
| 9/17/2020  |         |         | <0.0025     | <0.0025 | 0.0019 (J)  |
| 3/24/2021  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | <0.0025     |
| 8/24/2021  |         | <0.0025 | <0.0025     |         |             |
| 8/25/2021  | <0.0025 |         |             | <0.0025 | 0.0015 (J)  |
| 2/22/2022  | <0.0025 |         |             |         |             |
| 2/23/2022  |         | <0.0025 | <0.0025     | <0.0025 | 0.0014 (J)  |
| 8/2/2022   | <0.0025 |         |             |         |             |
| 8/3/2022   |         |         | <0.0025     | <0.0025 |             |
| 8/4/2022   |         | <0.0025 |             |         | 0.00064 (J) |
| 2/7/2023   | <0.0025 |         | <0.0025     |         |             |
| 2/8/2023   |         | <0.0025 |             | <0.0025 | 0.0002 (J)  |

## Time Series

Constituent: Boron (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | <0.08        |              |             | <0.08       | 0.157        |        |
| 5/6/2016   |              |              |             |             |              | 0.567  |
| 6/20/2016  | 0.011 (J)    | 0.017 (J)    | 0.013 (J)   |             |              |        |
| 6/21/2016  |              |              |             | 0.124       |              | 1.55   |
| 8/15/2016  | 0.022 (J)    | 0.032 (J)    | 0.023 (J)   | 0.18        |              |        |
| 8/16/2016  |              |              |             |             |              | 0.85   |
| 9/28/2016  | 0.023 (J)    | 0.021 (J)    | <0.08       | 0.17        |              | 0.7    |
| 11/16/2016 | <0.08        | <0.08        | <0.08       | 0.17        |              | 0.88   |
| 1/16/2017  | 0.021 (J)    |              | <0.08       | 0.17        |              |        |
| 1/17/2017  |              | <0.08        | <0.08       |             |              |        |
| 1/19/2017  |              |              |             |             |              | 1.5    |
| 3/2/2017   | <0.08        | <0.08        | <0.08       | 0.14        |              | 0.89   |
| 4/18/2017  | <0.08        | <0.08        | <0.08       | 0.14        |              | 1.1    |
| 7/13/2017  |              | <0.08        |             |             |              |        |
| 10/10/2017 | 0.021 (J)    | 0.025 (J)    | <0.08       | 0.12        |              | 1.9    |
| 6/12/2018  | <0.08        | <0.08        | <0.08       |             |              |        |
| 6/13/2018  |              |              |             | 0.11        |              | 1.2    |
| 10/9/2018  | <0.08        | <0.08        | <0.08       |             |              |        |
| 10/10/2018 |              |              |             | 0.096 (J)   |              | 1.2    |
| 1/29/2019  |              |              |             |             | <0.08        |        |
| 3/25/2019  | <0.08        | <0.08        | <0.08       |             | <0.08        |        |
| 3/26/2019  |              |              |             | 0.079 (J)   |              | 1.3    |
| 9/10/2019  | <0.08        | <0.08        | <0.08       | 0.097       | 0.04 (J)     | 1.5    |
| 3/9/2020   | 0.045 (J)    | <0.08        |             |             |              |        |
| 3/10/2020  |              |              | <0.08       | 0.051 (J)   | <0.08        | 1.9    |
| 9/16/2020  | <0.08        | 0.045 (J)    | <0.08       | 0.041 (J)   | 0.04 (J)     |        |
| 9/17/2020  |              |              |             |             |              | 1.8    |
| 3/23/2021  | <0.08        | 0.047 (J)    |             | <0.08       | <0.08        |        |
| 3/24/2021  |              |              | <0.08       |             |              | 0.57   |
| 8/23/2021  | <0.08        | 0.043 (J)    |             |             |              |        |
| 8/24/2021  |              |              | <0.08       | <0.08       | <0.08        |        |
| 8/25/2021  |              |              |             |             |              | 1.7    |
| 2/22/2022  | <0.08        | <0.08        | <0.08       | <0.08       | <0.08        | 1.7    |
| 8/2/2022   | <0.08        | <0.08        | <0.08       | <0.08       | <0.08        |        |
| 8/3/2022   |              |              |             |             |              | 1.7    |
| 2/7/2023   | <0.08        | 0.028 (J)    | 0.022 (J)   | 0.028 (J)   | 0.039 (J)    |        |
| 2/8/2023   |              |              |             |             |              | 1.5    |

## Time Series

Constituent: Boron (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|------------|--------|--------|--------|--------|
| 5/5/2016   |            |        |        | 0.855  | 0.976  |
| 5/6/2016   |            | 3.78   | 0.926  |        |        |
| 6/21/2016  | 0.0201 (J) | 3.1    | 0.792  | 1.15   | 0.862  |
| 8/15/2016  |            |        |        | 1.3    | 0.8    |
| 8/16/2016  | 0.055      | 2.8    | 1      |        |        |
| 9/28/2016  |            |        |        | 1.3    | 0.8    |
| 9/29/2016  | <0.08      | 3.1    | 1      |        |        |
| 11/16/2016 | 0.055      | 3.9    | 1.2    | 1.3    | 0.98   |
| 1/17/2017  |            |        | 1.3    | 1.3    | 1.6    |
| 1/18/2017  | 0.097      | 3.7    |        |        |        |
| 3/2/2017   | 0.064      | 3.3    | 1.3    | 1.3    | 1.8    |
| 4/18/2017  |            |        | 1.8    | 1.5    | 2.4    |
| 4/19/2017  |            | 3.7    |        |        |        |
| 4/25/2017  | <0.08      |        |        |        |        |
| 7/13/2017  | <0.08      |        |        |        |        |
| 10/10/2017 | <0.08      | 3.4    | 1.7    | 1.4    | 4.2    |
| 6/12/2018  | <0.08      |        |        |        |        |
| 6/13/2018  |            | 3      | 1.6    | 1.4    | 4.9    |
| 10/10/2018 | 0.034 (J)  | 3      | 1.6    | 1.4    | 5.1    |
| 3/26/2019  | 0.032 (J)  | 2.6    | 1.5    | 1.5    | 5.1    |
| 9/10/2019  | 0.06 (J)   | 2.4    | 1.5    | 1.5    | 4.8    |
| 3/10/2020  | <0.08      | 2.3    | 1.3    | 1.4    | 4      |
| 9/16/2020  | <0.08      | 2.1    |        |        |        |
| 9/17/2020  |            |        | 1.2    | 1.4    | 4.4    |
| 3/24/2021  | <0.08      | 2.4    | 1.2    | 1.5    | 3.6    |
| 8/24/2021  |            | 2.2    | 0.97   |        |        |
| 8/25/2021  | 0.11       |        |        | 1.6    | 4.2    |
| 2/22/2022  | <0.08      |        |        |        |        |
| 2/23/2022  |            | 2      | 0.83   | 2.1    | 4.1    |
| 8/2/2022   | 0.071 (J)  |        |        |        |        |
| 8/3/2022   |            |        | 0.76   | 2.3    |        |
| 8/4/2022   |            | 1.9    |        |        | 4.3    |
| 2/7/2023   | 0.067 (J)  |        | 0.63   |        |        |
| 2/8/2023   |            | 1.8    |        | 2.1    | 3.9    |

## Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1       |
|------------|--------------|--------------|-------------|-------------|--------------|--------------|
| 5/5/2016   | <0.0025      |              |             | <0.0025     |              |              |
| 5/6/2016   |              |              |             |             |              | 0.000126 (J) |
| 6/20/2016  | <0.0025      | <0.0025      | <0.0025     |             |              |              |
| 6/21/2016  |              |              |             | <0.0025     |              | 0.0005 (J)   |
| 8/15/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              |              |
| 8/16/2016  |              |              |             |             |              | <0.0025      |
| 9/28/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 11/16/2016 | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 1/16/2017  | <0.0025      |              |             |             |              |              |
| 1/17/2017  |              | <0.0025      | <0.0025     | <0.0025     |              |              |
| 1/19/2017  |              |              |             |             |              | <0.0025      |
| 3/2/2017   | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 4/18/2017  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 7/13/2017  |              | <0.0025      |             |             |              |              |
| 3/29/2018  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 6/12/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |              |
| 6/13/2018  |              |              |             | <0.0025     |              | <0.0025      |
| 10/9/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |              |
| 10/10/2018 |              |              |             | <0.0025     |              | <0.0025      |
| 1/28/2019  | <0.0025      | <0.0025      |             |             |              |              |
| 1/29/2019  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025      |
| 3/25/2019  | <0.0025      | <0.0025      | <0.0025     |             | <0.0025      |              |
| 3/26/2019  |              |              |             | <0.0025     |              | <0.0025      |
| 9/10/2019  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | 0.00017 (J)  |
| 1/28/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 1/29/2020  |              |              |             |             |              | <0.0025      |
| 3/9/2020   | 0.00023 (J)  | <0.0025      |             |             |              |              |
| 3/10/2020  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025      |
| 9/16/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 9/17/2020  |              |              |             |             |              | <0.0025      |
| 3/23/2021  | <0.0025      | <0.0025      |             | <0.0025     | <0.0025      |              |
| 3/24/2021  |              |              | <0.0025     |             |              | <0.0025      |
| 8/23/2021  | <0.0025      | <0.0025      |             |             |              |              |
| 8/24/2021  |              |              | <0.0025     | <0.0025     | <0.0025      |              |
| 8/25/2021  |              |              |             |             |              | <0.0025      |
| 2/22/2022  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | <0.0025      |
| 8/2/2022   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 8/3/2022   |              |              |             |             |              | 8.5E-05 (J)  |
| 2/7/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 2/8/2023   |              |              |             |             |              | 0.00012 (J)  |

## Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2      | MGWC-3  | MGWC-7      | MGWC-8       |
|------------|---------|-------------|---------|-------------|--------------|
| 5/5/2016   |         |             |         | <0.0025     | 0.000784 (J) |
| 5/6/2016   |         | 0.00166     | <0.0025 |             |              |
| 6/21/2016  | <0.0025 | 0.0008 (J)  | <0.0025 | <0.0025     | 0.0003 (J)   |
| 8/15/2016  |         |             |         | <0.0025     | <0.0025      |
| 8/16/2016  | <0.0025 | 0.0034      | <0.0025 |             |              |
| 9/28/2016  |         |             |         | <0.0025     | <0.0025      |
| 9/29/2016  | <0.0025 | 0.0027      | <0.0025 |             |              |
| 11/16/2016 | <0.0025 | 0.0022 (J)  | <0.0025 | <0.0025     | <0.0025      |
| 1/17/2017  |         |             | <0.0025 | <0.0025     | <0.0025      |
| 1/18/2017  | <0.0025 | 0.008       |         |             |              |
| 3/2/2017   | <0.0025 | 0.005       | <0.0025 | <0.0025     | <0.0025      |
| 4/18/2017  |         |             | <0.0025 | <0.0025     | 0.00044 (J)  |
| 4/19/2017  |         | 0.0011 (J)  |         |             |              |
| 4/25/2017  | <0.0025 |             |         |             |              |
| 7/13/2017  | <0.0025 |             |         |             |              |
| 3/29/2018  | <0.0025 |             |         | <0.0025     |              |
| 3/30/2018  |         | 0.0016 (J)  | <0.0025 |             | 0.00058 (J)  |
| 6/12/2018  | <0.0025 |             |         |             |              |
| 6/13/2018  |         | 0.0016 (J)  | <0.0025 | <0.0025     | 0.00076 (J)  |
| 10/10/2018 | <0.0025 | 0.001 (J)   | <0.0025 | <0.0025     | 0.00035 (J)  |
| 1/29/2019  | <0.0025 | 0.00315     | <0.0025 | <0.0025     | <0.0025      |
| 3/26/2019  | <0.0025 | 0.0019 (J)  | <0.0025 | <0.0025     | 0.0005 (J)   |
| 9/10/2019  | <0.0025 | 0.0011      | <0.0025 | <0.0025     | 0.00079 (J)  |
| 1/28/2020  | <0.0025 |             |         | <0.0025     |              |
| 1/29/2020  |         | 0.0054      | <0.0025 |             | 0.0009 (J)   |
| 3/10/2020  | <0.0025 | 0.0011 (J)  | <0.0025 | <0.0025     | 0.0011 (J)   |
| 9/16/2020  | <0.0025 | 0.00053 (J) |         |             |              |
| 9/17/2020  |         |             | <0.0025 | 0.00023 (J) | 0.00072 (J)  |
| 3/24/2021  | <0.0025 | 0.0022 (J)  | <0.0025 | <0.0025     | 0.001 (J)    |
| 8/24/2021  |         | 0.00054 (J) | <0.0025 |             |              |
| 8/25/2021  | <0.0025 |             |         | <0.0025     | 0.0046       |
| 2/22/2022  | <0.0025 |             |         |             |              |
| 2/23/2022  |         | 0.0039      | <0.0025 | <0.0025     | 0.0014 (J)   |
| 8/2/2022   | <0.0025 |             |         |             |              |
| 8/3/2022   |         |             | <0.0025 | 0.00041 (J) |              |
| 8/4/2022   |         | 0.0002 (J)  |         |             | 0.0037       |
| 2/7/2023   | <0.0025 |             | <0.0025 |             |              |
| 2/8/2023   |         | 0.0021 (J)  |         | <0.0025     | 0.0018 (J)   |

## Time Series

Constituent: Calcium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 8.83         |              | 27          | 105         |              |        |
| 5/6/2016   |              |              |             |             |              | 92.5   |
| 6/20/2016  | 8.1          | 35.5         | 29.4        |             |              |        |
| 6/21/2016  |              |              |             | 91.2        |              | 119    |
| 8/15/2016  | 6.1          | 34           | 26          | 94          |              |        |
| 8/16/2016  |              |              |             |             |              | 84     |
| 9/28/2016  | 7.2          | 38           | 31          | 110         |              | 92     |
| 11/16/2016 | 5.2          | 33           | 26          | 98          |              | 83     |
| 1/16/2017  | 3.8          |              |             |             |              |        |
| 1/17/2017  |              | 34           | 29          | 100         |              |        |
| 1/19/2017  |              |              |             |             |              | 110    |
| 3/2/2017   | 5.4          | 35           | 28          | 100         |              | 89     |
| 4/18/2017  | 5            | 33           | 27          | 110         |              | 100    |
| 7/13/2017  |              | 30           |             |             |              |        |
| 10/10/2017 | 4.8          | 39           | 31          | 110         |              | 120    |
| 6/12/2018  | 4.8          | 26           | 25          |             |              |        |
| 6/13/2018  |              |              |             | 100         |              | 100    |
| 10/9/2018  | 4.5          | 29           | 29          |             |              |        |
| 10/10/2018 |              |              |             | 100         |              | 100    |
| 1/29/2019  |              |              |             |             | 95.1         |        |
| 3/25/2019  | 4.6          | 37           | 27          |             | 89           |        |
| 3/26/2019  |              |              |             | 100         |              | 100    |
| 9/10/2019  | 4.9          | 36           | 27          | 110         | 86           | 110    |
| 3/9/2020   | 4            | 32           |             |             |              |        |
| 3/10/2020  |              |              | 29          | 100         | 90           | 120    |
| 9/16/2020  | 6.8          | 30           | 28          | 100         | 93           |        |
| 9/17/2020  |              |              |             |             |              | 110    |
| 3/23/2021  | 4            | 42           |             | 110         | 97           |        |
| 3/24/2021  |              |              | 28          |             |              | 100    |
| 8/23/2021  | 5.8          | 34           |             |             |              |        |
| 8/24/2021  |              |              | 27          | 100         | 83           |        |
| 8/25/2021  |              |              |             |             |              | 120    |
| 2/22/2022  | 3.3          | 36           | 25          | 97          | 90           | 100    |
| 8/2/2022   | 3.1          | 36           | 26          | 110         | 94           |        |
| 8/3/2022   |              |              |             |             |              | 110    |
| 2/7/2023   | 3.6          | 34           | 26          | 110         | 99           |        |
| 2/8/2023   |              |              |             |             |              | 110    |

## Time Series

Constituent: Calcium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 45     | 41.2   |
| 5/6/2016   |         | 131    | 109    |        |        |
| 6/21/2016  | 25.5    | 119    | 99.7   | 52.8   | 44.7   |
| 8/15/2016  |         |        |        | 50     | 27     |
| 8/16/2016  | 25      | 120    | 97     |        |        |
| 9/28/2016  |         |        |        | 58     | 32     |
| 9/29/2016  | 30      | 140    | 100    |        |        |
| 11/16/2016 | 26      | 120    | 94     | 50     | 27     |
| 1/17/2017  |         |        | 100    | 52     | 32     |
| 1/18/2017  | 32      | 130    |        |        |        |
| 3/2/2017   | 26      | 120    | 99     | 52     | 33     |
| 4/18/2017  |         |        | 120    | 56     | 59     |
| 4/19/2017  |         | 120    |        |        |        |
| 4/25/2017  | 26      |        |        |        |        |
| 7/13/2017  | 26      |        |        |        |        |
| 10/10/2017 | 28      | 130    | 110    | 56     | 74     |
| 6/12/2018  | 30      |        |        |        |        |
| 6/13/2018  |         | 120    | 100    | 51     | 84     |
| 10/10/2018 | 35      | 120    | 96     | 51     | 87     |
| 3/26/2019  | 33      | 110    | 99     | 52     | 96     |
| 9/10/2019  | 33      | 110    | 99     | 53     | 97     |
| 3/10/2020  | 30      | 110    | 110    | 55     | 100    |
| 9/16/2020  | 25      | 110    |        |        |        |
| 9/17/2020  |         |        | 110    | 48     | 100    |
| 3/24/2021  | 32      | 120    | 120    | 51     | 120    |
| 8/24/2021  |         | 110    | 110    |        |        |
| 8/25/2021  | 31      |        |        | 59     | 96     |
| 2/22/2022  | 35      |        |        |        |        |
| 2/23/2022  |         | 100    | 120    | 61     | 97     |
| 8/2/2022   | 34      |        |        |        |        |
| 8/3/2022   |         |        | 110    | 66     |        |
| 8/4/2022   |         | 98     |        |        | 100    |
| 2/7/2023   | 30      |        | 110    |        |        |
| 2/8/2023   |         | 100    |        | 65     | 110    |

## Time Series

Constituent: Chloride (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 7.35         |              | 6.51        | 9.67        |              |        |
| 5/6/2016   |              |              |             |             |              | 13.2   |
| 6/20/2016  | 7            | 4.3          | 5.9         |             |              |        |
| 6/21/2016  |              |              |             | 9.2         |              | 15     |
| 8/15/2016  | 7.5          | 4.1          | 6.4         | 10          |              |        |
| 8/16/2016  |              |              |             |             |              | 14     |
| 9/28/2016  | 7            | 3.9          | 6.1         | 10          |              | 14     |
| 11/16/2016 | 7.5          | 4.1          | 6.1         | 10          |              | 14     |
| 1/16/2017  | 7.7          |              |             |             |              |        |
| 1/17/2017  |              | 3.9          | 5.7         | 9.4         |              |        |
| 1/19/2017  |              |              |             |             |              | 14     |
| 3/2/2017   | 6.9          | 3.5          | 5.3         | 8.6         |              | 13     |
| 4/18/2017  | 6.8          | 3.7          | 5.3         | 8.9         |              | 13     |
| 7/13/2017  |              | 4.2          |             |             |              |        |
| 10/10/2017 | 6.9          | 3.4          | 5.3         | 8.3         |              | 14     |
| 6/12/2018  | 6.7          | 4.6          | 5.1         |             |              |        |
| 6/13/2018  |              |              |             | 7           |              | 13     |
| 10/9/2018  | 7.1          | 4.5          | 5.6         |             |              |        |
| 10/10/2018 |              |              |             | 6.9         |              | 14     |
| 1/29/2019  |              |              |             |             | 4.51         |        |
| 3/25/2019  | 6.8          | 3.4          | 4.7         |             | 4.4          |        |
| 3/26/2019  |              |              |             | 5.8         |              | 13     |
| 9/10/2019  | 7            | 3.5          | 5.1         | 6           | 4.2          | 13     |
| 3/9/2020   | 7.4          | 4.5          |             |             |              |        |
| 3/10/2020  |              |              | 5.4         | 5.1         | 4            | 14     |
| 9/16/2020  | 7            | 4.6          | 5.2         | 4.3         | 3.7          |        |
| 9/17/2020  |              |              |             |             |              | 14     |
| 3/23/2021  | 7.8          | 3.8          |             | 4           | 4.1          |        |
| 3/24/2021  |              |              | 5.5         |             |              | 14     |
| 8/23/2021  | 7.3          | 4.4          |             |             |              |        |
| 8/24/2021  |              |              | 5.5         | 4           | 3.9          |        |
| 8/25/2021  |              |              |             |             |              | 14     |
| 2/22/2022  | 7.1          | 3.1          | 5.1         | 4           | 3.3          | 13     |
| 8/2/2022   | 7.4          | 3.4          | 3.5         | 2.6         | 2.8          |        |
| 8/3/2022   |              |              |             |             |              | 13     |
| 2/7/2023   | 7            | 4.2          | 4.7         | 3.1         | 3.2          |        |
| 2/8/2023   |              |              |             |             |              | 12     |

## Time Series

Constituent: Chloride (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 13     | 10.1   |
| 5/6/2016   |         | 41     | 12.5   |        |        |
| 6/21/2016  | 4.4     | 20     | 13     | 13     | 10     |
| 8/15/2016  |         |        |        | 14     | 9.5    |
| 8/16/2016  | 4.6     | 20     | 13     |        |        |
| 9/28/2016  |         |        |        | 13     | 9.2    |
| 9/29/2016  | 4.4     | 19     | 13     |        |        |
| 11/16/2016 | 4.5     | 20     | 14     | 13     | 9.5    |
| 1/17/2017  |         |        | 14     | 13     | 10     |
| 1/18/2017  | 4.2     | 18     |        |        |        |
| 3/2/2017   | 3.9     | 18     | 13     | 13     | 9.3    |
| 4/18/2017  |         |        |        | 13     | 10     |
| 4/19/2017  |         | 17     |        |        |        |
| 4/25/2017  | 4       |        |        |        |        |
| 7/13/2017  | 4       |        |        |        |        |
| 10/10/2017 | 4       | 16     | 14     | 12     | 11     |
| 6/12/2018  | 4       |        |        |        |        |
| 6/13/2018  |         | 16     | 13     | 12     | 11     |
| 10/10/2018 | 4.2     | 15     | 14     | 12     | 10     |
| 3/26/2019  | 3.8     | 14     | 14     | 11     | 11     |
| 9/10/2019  | 4.1     | 13     | 13     | 9.9    | 10     |
| 3/10/2020  | 4.1     | 12     | 15     | 10     | 12     |
| 9/16/2020  | 5.1     | 12     |        |        |        |
| 9/17/2020  |         |        | 14     | 9.6    | 10     |
| 3/24/2021  | 5.7     | 13     | 14     | 10     | 18     |
| 8/24/2021  |         | 13     | 14     |        |        |
| 8/25/2021  | 4.9     |        |        | 9.9    | 11     |
| 2/22/2022  | 4       |        |        |        |        |
| 2/23/2022  |         | 13     | 14     | 9.8    | 11     |
| 8/2/2022   | 4.9     |        |        |        |        |
| 8/3/2022   |         |        | 13     | 11     |        |
| 8/4/2022   |         | 12     |        |        | 13     |
| 2/7/2023   | 4.2     |        | 11     |        |        |
| 2/8/2023   |         | 11     |        | 11     | 13     |

## Time Series

Constituent: Chromium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1     |
|------------|--------------|--------------|-------------|-------------|--------------|------------|
| 5/5/2016   | 0.00249 (J)  |              | <0.002      | <0.002      |              |            |
| 5/6/2016   |              |              |             |             |              | <0.002     |
| 6/20/2016  | 0.0026 (J)   | 0.00066 (J)  | 0.00024 (J) |             |              |            |
| 6/21/2016  |              |              |             | <0.002      |              | <0.002     |
| 8/15/2016  | 0.0029       | <0.002       | <0.002      | <0.002      |              |            |
| 8/16/2016  |              |              |             |             |              | <0.002     |
| 9/28/2016  | 0.0027       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 11/16/2016 | 0.0026       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 1/16/2017  | 0.0029       |              |             |             |              |            |
| 1/17/2017  |              | <0.002       | <0.002      | <0.002      |              |            |
| 1/19/2017  |              |              |             |             |              | <0.002     |
| 3/2/2017   | 0.0063       | 0.003        | 0.0032      | 0.0032      |              | 0.0036     |
| 4/18/2017  | 0.0031       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 7/13/2017  |              | <0.002       |             |             |              |            |
| 3/29/2018  | 0.0039       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 6/12/2018  | 0.0038       | <0.002       | <0.002      |             |              |            |
| 6/13/2018  |              |              |             | <0.002      |              | <0.002     |
| 10/9/2018  | 0.0037       | <0.002       | <0.002      |             |              |            |
| 10/10/2018 |              |              |             | <0.002      |              | <0.002     |
| 1/28/2019  | 0.00545      | <0.002       |             |             |              |            |
| 1/29/2019  |              |              | <0.002      | <0.002      | <0.002       | <0.002     |
| 1/28/2020  | 0.0044       | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 1/29/2020  |              |              |             |             |              | <0.002     |
| 3/9/2020   | 0.0042       | <0.002       |             |             |              |            |
| 3/10/2020  |              |              | <0.002      | <0.002      | <0.002       | <0.002     |
| 9/16/2020  | 0.0039       | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 9/17/2020  |              |              |             |             |              | <0.002     |
| 3/23/2021  | 0.0043       | <0.002       |             | <0.002      | <0.002       |            |
| 3/24/2021  |              |              | <0.002      |             |              | <0.002     |
| 8/23/2021  | 0.0045       | <0.002       |             |             |              |            |
| 8/24/2021  |              |              | <0.002      | <0.002      | <0.002       |            |
| 8/25/2021  |              |              |             |             |              | <0.002     |
| 2/22/2022  | 0.0039       | <0.002       | <0.002      | <0.002      | <0.002       | <0.002     |
| 8/2/2022   | 0.003        | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 8/3/2022   |              |              |             |             |              | <0.002     |
| 2/7/2023   | 0.0053       | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 2/8/2023   |              |              |             |             |              | 0.0014 (J) |

## Time Series

Constituent: Chromium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3 | MGWC-7     | MGWC-8     |
|------------|------------|--------|--------|------------|------------|
| 5/5/2016   |            |        |        | <0.002     | <0.002     |
| 5/6/2016   |            | <0.002 | <0.002 |            |            |
| 6/21/2016  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 8/15/2016  |            |        |        | <0.002     | <0.002     |
| 8/16/2016  | <0.002     | <0.002 | <0.002 |            |            |
| 9/28/2016  |            |        |        | <0.002     | <0.002     |
| 9/29/2016  | <0.002     | <0.002 | <0.002 |            |            |
| 11/16/2016 | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 1/17/2017  |            |        | <0.002 | <0.002     | <0.002     |
| 1/18/2017  | <0.002     | <0.002 |        |            |            |
| 3/2/2017   | 0.0032     | 0.0033 | 0.003  | 0.0034     | 0.0031     |
| 4/18/2017  |            |        | <0.002 | <0.002     | <0.002     |
| 4/19/2017  |            | <0.002 |        |            |            |
| 4/25/2017  | <0.002     |        |        |            |            |
| 7/13/2017  | <0.002     |        |        |            |            |
| 3/29/2018  | <0.002     |        |        | <0.002     |            |
| 3/30/2018  |            | <0.002 | <0.002 |            | <0.002     |
| 6/12/2018  | <0.002     |        |        |            |            |
| 6/13/2018  |            | <0.002 | <0.002 | <0.002     | <0.002     |
| 10/10/2018 | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 1/29/2019  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 1/28/2020  | <0.002     |        |        | 0.0015 (J) |            |
| 1/29/2020  |            | <0.002 | <0.002 |            | <0.002     |
| 3/10/2020  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 9/16/2020  | 0.029      | <0.002 |        |            |            |
| 9/17/2020  |            |        | <0.002 | <0.002     | <0.002     |
| 3/24/2021  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 8/24/2021  |            | <0.002 | <0.002 |            |            |
| 8/25/2021  | <0.002     |        |        | <0.002     | <0.002     |
| 2/22/2022  | <0.002     |        |        |            |            |
| 2/23/2022  |            | <0.002 | <0.002 | <0.002     | <0.002     |
| 8/2/2022   | <0.002     |        |        |            |            |
| 8/3/2022   |            |        | <0.002 | <0.002     |            |
| 8/4/2022   |            | <0.002 |        |            | <0.002     |
| 2/7/2023   | 0.0012 (J) |        | <0.002 |            |            |
| 2/8/2023   |            | <0.002 |        | 0.0013 (J) | 0.0013 (J) |

## Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.0025      |              |             | <0.0025     |              |             |
| 5/6/2016   |              |              |             |             |              | <0.0025     |
| 6/20/2016  | 0.00018 (J)  | 3.9E-05 (J)  | 1.2E-05 (J) |             | 0.0003 (J)   | 0.0012 (J)  |
| 6/21/2016  |              |              |             |             | 0.00049 (J)  | 0.00047 (J) |
| 8/15/2016  | <0.0025      | <0.0025      | <0.0025     |             |              | 0.00058 (J) |
| 8/16/2016  |              |              |             |             |              |             |
| 9/28/2016  | <0.0025      | <0.0025      | <0.0025     | 0.00043 (J) |              |             |
| 11/16/2016 | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 1/16/2017  | <0.0025      |              |             |             |              |             |
| 1/17/2017  |              | <0.0025      | <0.0025     | <0.0025     |              |             |
| 1/19/2017  |              |              |             |             | 0.0004 (J)   |             |
| 3/2/2017   | <0.0025      | <0.0025      | <0.0025     | 0.00046 (J) |              | <0.0025     |
| 4/18/2017  | <0.0025      | <0.0025      | <0.0025     | 0.00044 (J) |              | <0.0025     |
| 7/13/2017  |              | <0.0025      |             |             |              |             |
| 3/29/2018  | <0.0025      | <0.0025      | <0.0025     | 0.00065 (J) |              | <0.0025     |
| 6/12/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 6/13/2018  |              |              |             | <0.0025     |              | <0.0025     |
| 10/9/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 10/10/2018 |              |              |             | 0.00051 (J) |              | <0.0025     |
| 1/28/2019  | <0.0025      | <0.0025      |             |             |              |             |
| 1/29/2019  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 3/25/2019  | <0.0025      | <0.0025      | <0.0025     |             | <0.0025      |             |
| 3/26/2019  |              |              |             | <0.0025     |              | <0.0025     |
| 9/10/2019  | 0.00011 (J)  | <0.0025      | <0.0025     | 0.00037 (J) | 0.0002 (J)   | 0.00032 (J) |
| 1/28/2020  | <0.0025      | <0.0025      | <0.0025     | 0.00041 (J) | 0.00024 (J)  |             |
| 1/29/2020  |              |              |             |             | 0.00027 (J)  |             |
| 3/9/2020   | <0.0025      | <0.0025      |             |             |              |             |
| 3/10/2020  |              |              | <0.0025     | 0.00038 (J) | 0.00032 (J)  | <0.0025     |
| 9/16/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | 0.00038 (J)  |             |
| 9/17/2020  |              |              |             |             |              | 0.0002 (J)  |
| 3/23/2021  | 0.00014 (J)  | <0.0025      |             | 0.00025 (J) | 0.00036 (J)  |             |
| 3/24/2021  |              |              | <0.0025     |             |              | <0.0025     |
| 8/23/2021  | <0.0025      | <0.0025      |             |             |              |             |
| 8/24/2021  |              |              | <0.0025     | <0.0025     | 0.0017 (J)   |             |
| 8/25/2021  |              |              |             |             |              | 0.00018 (J) |
| 2/22/2022  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | 0.00049 (J)  | <0.0025     |
| 8/2/2022   | <0.0025      | <0.0025      | 0.012 (o)   | 0.0003 (J)  | 0.00034 (J)  |             |
| 8/3/2022   |              |              |             |             |              | <0.0025     |
| 2/7/2023   | <0.0025      | <0.0025      | <0.0025     | 0.00023 (J) | 0.00069 (J)  |             |
| 2/8/2023   |              |              |             |             |              | <0.0025     |

## Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7     | MGWC-8      |
|------------|-------------|-------------|-------------|------------|-------------|
| 5/5/2016   |             |             |             | 0.0036 (J) | 0.00359 (J) |
| 5/6/2016   |             | 0.00311 (J) | <0.0025     |            |             |
| 6/21/2016  | <0.0025     | 0.0031 (J)  | 0.0006 (J)  | 0.0097 (J) | 0.0033 (J)  |
| 8/15/2016  |             |             |             | 0.0098     | 0.0038      |
| 8/16/2016  | <0.0025     | 0.0034      | 0.00064 (J) |            |             |
| 9/28/2016  |             |             |             | 0.0095     | 0.0043      |
| 9/29/2016  | <0.0025     | 0.0032      | 0.00054 (J) |            |             |
| 11/16/2016 | <0.0025     | 0.0032      | 0.00041 (J) | 0.0094     | 0.004       |
| 1/17/2017  |             |             | 0.00051 (J) | 0.0099     | 0.0051      |
| 1/18/2017  | <0.0025     | 0.0032      |             |            |             |
| 3/2/2017   | <0.0025     | 0.0042      | 0.00064 (J) | 0.013      | 0.0064      |
| 4/18/2017  |             |             | 0.00057 (J) | 0.0086     | 0.005       |
| 4/19/2017  |             | 0.0035      |             |            |             |
| 4/25/2017  | <0.0025     |             |             |            |             |
| 7/13/2017  | <0.0025     |             |             |            |             |
| 3/29/2018  | <0.0025     |             |             | 0.0088     |             |
| 3/30/2018  |             | 0.0037      | 0.00068 (J) |            | 0.015       |
| 6/12/2018  | <0.0025     |             |             |            |             |
| 6/13/2018  |             | 0.0035      | 0.00048 (J) | 0.0093     | 0.014       |
| 10/10/2018 | <0.0025     | 0.0034      | 0.00063 (J) | 0.012      | 0.018       |
| 1/29/2019  | <0.0025     | 0.00293     | <0.0025     | 0.0103     | 0.0159      |
| 3/26/2019  | <0.0025     | 0.003       | <0.0025     | 0.009      | 0.02        |
| 9/10/2019  | 0.00016 (J) | 0.0027      | 0.00065     | 0.011      | 0.019       |
| 1/28/2020  | <0.0025     |             |             | 0.008      |             |
| 1/29/2020  |             | 0.003       | 0.00067     |            | 0.025       |
| 3/10/2020  | <0.0025     | 0.0024 (J)  | 0.0005 (J)  | 0.0081     | 0.017       |
| 9/16/2020  | 0.0015 (J)  | 0.002 (J)   |             |            |             |
| 9/17/2020  |             |             | 0.00053 (J) | 0.0098     | 0.024       |
| 3/24/2021  | <0.0025     | 0.0019 (J)  | 0.00053 (J) | 0.0063     | 0.002 (J)   |
| 8/24/2021  |             | 0.0018 (J)  | 0.00034 (J) |            |             |
| 8/25/2021  | <0.0025     |             |             | 0.0032     | 0.021       |
| 2/22/2022  | <0.0025     |             |             |            |             |
| 2/23/2022  |             | 0.0016 (J)  | 0.0012 (J)  | 0.007      | 0.015       |
| 8/2/2022   | <0.0025     |             |             |            |             |
| 8/3/2022   |             |             | 0.00051 (J) | 0.0044     |             |
| 8/4/2022   |             | 0.0013 (J)  |             |            | 0.0092      |
| 2/7/2023   | <0.0025     |             | 0.0025      |            |             |
| 2/8/2023   |             | 0.0012 (J)  |             | 0.0044     | 0.0019 (J)  |

## Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 0.879        |              | 0.48        | 0.694       |              |        |
| 5/6/2016   |              |              |             |             |              | 1.07   |
| 6/20/2016  | 0.305 (U)    | 0.556 (U)    | 0.184       |             | 0.511 (U)    | 2.01   |
| 8/15/2016  | 0.577        | 0.72         | 0.577       | 0.467       |              | 1.12   |
| 8/16/2016  |              |              |             |             |              |        |
| 9/28/2016  | 0.77         | 0.521 (U)    | 0.107 (U)   | 0.926       |              | 1.09   |
| 11/16/2016 | 0.427 (U)    | 0.322 (U)    | 0.333 (U)   | 0.863       |              | 1.58   |
| 1/16/2017  | 1.1          |              |             |             |              |        |
| 1/17/2017  |              | 1.26         | 0.511 (U)   | 0.82        |              |        |
| 1/19/2017  |              |              |             |             |              | 1.64   |
| 3/2/2017   | 1.01         | 0.47         | 0.105 (U)   | 0.236 (U)   |              | 1.08   |
| 4/18/2017  | 0.635        | 0.233 (U)    | 0.279 (U)   | 0.316 (U)   |              | 1.23   |
| 7/13/2017  |              | 0.679        |             |             |              |        |
| 3/29/2018  | 0.799        | 0.723        | 0.37        | 0.6         |              | 1.21   |
| 6/12/2018  | 0.313 (U)    | 0.105 (U)    | 0.133 (U)   |             | 0.349 (U)    | 1.09   |
| 6/13/2018  |              |              |             |             |              |        |
| 10/9/2018  | 1.11         | 0.65         | 0.85        |             |              |        |
| 10/10/2018 |              |              |             | 1.01        |              | 1.95   |
| 1/28/2019  | 0.872        | 0.478        |             |             |              |        |
| 1/29/2019  |              |              | 0.275 (U)   | 0.591       | 0.874        | 1.11   |
| 3/25/2019  | 0.526        | 0.717        | 0.629       |             | 0.646        |        |
| 3/26/2019  |              |              |             | 0.4         |              | 1      |
| 9/10/2019  | 0.612        | 0.377 (U)    | 0.354 (U)   | 0.481       | 0.988        | 1.26   |
| 1/28/2020  | 0.322 (U)    | 0.528        | 0.0677 (U)  | 0.374 (U)   | 0.0609 (U)   |        |
| 1/29/2020  |              |              |             |             |              | 1.39   |
| 3/9/2020   | 0.761        | 0.00483 (U)  |             |             |              |        |
| 3/10/2020  |              |              | 0.0594 (U)  | 0.41 (U)    | 0.528        | 1.4    |
| 9/16/2020  | 0.969        | 0.583        | 0.821       | -0.0651 (U) | 1.13         |        |
| 9/17/2020  |              |              |             |             |              | 1.79   |
| 12/7/2020  |              |              | 0.979       |             |              |        |
| 12/8/2020  |              |              |             |             |              | 1.87   |
| 3/23/2021  | 0.657        | 0.409 (U)    |             | 0.542       | 0.612        |        |
| 3/24/2021  |              |              | 0.206 (U)   |             |              | 1.81   |
| 8/23/2021  | 0.752        | 1.19         |             |             |              |        |
| 8/24/2021  |              |              | 0.521 (U)   | 0.678       | 0.596        |        |
| 8/25/2021  |              |              |             |             |              | 2.12   |
| 2/22/2022  | 1.06         | 0.837        | 0.511       | 0.594       | 0.728        | 1.85   |
| 8/2/2022   | 0.239 (U)    | 0.967        | 0.35 (U)    | 0.683       | 0.42 (U)     |        |
| 8/3/2022   |              |              |             |             |              | 2.2    |
| 2/7/2023   | 0.671        | 0.858        | 0.0887 (U)  | 0.487 (U)   | 0.701        |        |
| 2/8/2023   |              |              |             |             |              | 1.77   |

## Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12   | MGWC-2     | MGWC-3    | MGWC-7 | MGWC-8    |
|------------|-----------|------------|-----------|--------|-----------|
| 5/5/2016   |           |            |           | 0.75   | 1.21      |
| 5/6/2016   |           | 0.633      | 1.41      |        |           |
| 6/21/2016  | 0.292 (U) | 1.19 (U)   | 1.71      | 1.01   | 0.895 (U) |
| 8/15/2016  |           |            |           | 1.3    | 1.64      |
| 8/16/2016  | 0.232 (U) | 0.516      | 1.75      |        |           |
| 9/28/2016  |           |            |           | 1.06   | 2.17      |
| 9/29/2016  | 1.11      | 0.665      | 1.43      |        |           |
| 11/16/2016 | 0.798     | 0.694      | 1.9       | 0.855  | 1.49      |
| 1/17/2017  |           |            | 1.9       | 1.59   | 1.75      |
| 1/18/2017  | 0.302 (U) | 0.688      |           |        |           |
| 3/2/2017   | 0.437     | 0.484      | 1.37      | 1.4    | 1.03      |
| 4/18/2017  |           |            | 1.42      | 0.684  | 1.83      |
| 4/19/2017  |           | 0.599      |           |        |           |
| 4/25/2017  | 0.391     |            |           |        |           |
| 7/13/2017  | 0.47      |            |           |        |           |
| 3/29/2018  | 0.736     |            |           | 0.822  |           |
| 3/30/2018  |           | 0.677      | 1.43      |        | 2.15      |
| 6/12/2018  | 0.438     |            |           |        |           |
| 6/13/2018  |           | 0.272 (U)  | 1.27      | 0.716  | 1.51      |
| 10/10/2018 | 0.371     | 0.336      | 1.54      | 1.51   | 2.72      |
| 1/29/2019  | 0.639     | 0.719      | 1.34      | 1.7    | 1.93      |
| 3/26/2019  | 0.607     | 0.41 (U)   | 1.25      | 0.784  | 1.79      |
| 9/10/2019  | 0.939     | 0.548      | 1.6       | 0.958  | 1.78      |
| 1/28/2020  | 0.465     |            |           | 1.38   |           |
| 1/29/2020  |           | 0.0985 (U) | 1.44      |        | 1.61      |
| 3/10/2020  | 0.34 (U)  | 0.589      | 1.32      | 0.903  | 1.95      |
| 9/16/2020  | 1.09      | 1.11       |           |        |           |
| 9/17/2020  |           |            | 0.666 (U) | 1.28   | 1.56      |
| 12/8/2020  |           |            | 1.65      |        |           |
| 3/24/2021  | 0.434 (U) | 0.625      | 1.58      | 1.2    | 0.636     |
| 8/24/2021  |           | 0.313 (U)  | 1.65      |        |           |
| 8/25/2021  | 0.563     |            |           | 0.767  | 2.13      |
| 2/22/2022  | 0.888     |            |           |        |           |
| 2/23/2022  |           | 0.598      | 1.47      | 1.42   | 2.62      |
| 8/2/2022   | 1.08      |            |           |        |           |
| 8/3/2022   |           |            | 2.56      | 1.11   |           |
| 8/4/2022   |           | 0.632      |           |        | 1.24      |
| 2/7/2023   | 0.849     |            | 2.14      |        |           |
| 2/8/2023   |           | 0.799      |           | 1.88   | 1.11      |

## Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1    |
|------------|--------------|--------------|-------------|-------------|--------------|-----------|
| 5/5/2016   | 0.046 (J)    |              | 0.132 (J)   | 0.091 (J)   |              |           |
| 5/6/2016   |              |              |             |             |              | 0.28 (J)  |
| 6/20/2016  | <0.1         | 0.06 (J)     | 0.05 (J)    |             |              |           |
| 6/21/2016  |              |              |             | 0.08 (J)    |              | 0.36      |
| 8/15/2016  | <0.1         | 0.1 (J)      | 0.1 (J)     | <0.2        |              |           |
| 8/16/2016  |              |              |             |             |              | 0.27      |
| 9/28/2016  | <0.1         | 0.097 (J)    | 0.11 (J)    | 0.084 (J)   |              | 0.26      |
| 11/16/2016 | <0.1         | 0.12 (J)     | 0.093 (J)   | 0.084 (J)   |              | 0.24      |
| 1/16/2017  | <0.1         |              |             |             |              |           |
| 1/17/2017  |              | 0.11 (J)     | 0.095 (J)   | 0.099 (J)   |              |           |
| 1/19/2017  |              |              |             |             |              | 0.22      |
| 3/2/2017   | 0.12 (J)     | 0.18 (J)     | 0.16 (J)    | 0.15 (J)    |              | 0.27      |
| 4/18/2017  | <0.1         | 0.11 (J)     | <0.1        | <0.2        |              | 0.2       |
| 7/13/2017  |              | 0.12 (J)     |             |             |              |           |
| 10/10/2017 | <0.1         | 0.086 (J)    | <0.1        | <0.2        |              | 0.18 (J)  |
| 3/29/2018  | <0.1         | <0.1         | 0.084 (J)   | <0.2        |              | 0.16 (J)  |
| 6/12/2018  | <0.1         | 0.16 (J)     | <0.1        |             |              |           |
| 6/13/2018  |              |              |             | <0.2        |              | 0.14 (J)  |
| 10/9/2018  | <0.1         | 0.16 (J)     | 0.086 (J)   |             |              |           |
| 10/10/2018 |              |              |             | <0.2        |              | 0.17 (J)  |
| 1/29/2019  |              |              |             |             | <0.1         |           |
| 3/25/2019  | <0.1         | 0.087 (J)    | 0.072 (J)   |             | 0.067 (J)    |           |
| 3/26/2019  |              |              |             | 0.065 (J)   |              | 0.16      |
| 9/10/2019  | 0.044 (J)    | 0.075 (J)    | 0.068 (J)   | 0.076 (J)   | 0.052 (J)    | 0.098 (J) |
| 3/9/2020   | 0.061 (J)    | 0.19         |             |             |              |           |
| 3/10/2020  |              |              | 0.055 (J)   | 0.045 (J)   | 0.048 (J)    | 0.086 (J) |
| 9/16/2020  | 0.042 (J)    | 0.18         | 0.08 (J)    | 0.076 (J)   | 0.078 (J)    |           |
| 9/17/2020  |              |              |             |             |              | 0.15      |
| 3/23/2021  | 0.038 (J)    | 0.081 (J)    |             | 0.082 (J)   | 0.096 (J)    |           |
| 3/24/2021  |              |              | 0.091 (J)   |             |              | 0.27      |
| 8/23/2021  | 0.048 (J)    | 0.12         |             |             |              |           |
| 8/24/2021  |              |              | 0.1         | 0.1         | 0.11         |           |
| 8/25/2021  |              |              |             |             |              | 0.097 (J) |
| 2/22/2022  | <0.1         | <0.1         | <0.1        | 0.034 (J)   | <0.1         | 0.047 (J) |
| 8/2/2022   | <0.1         | 0.065 (J)    | 0.066 (J)   | 0.055 (J)   | 0.052 (J)    |           |
| 8/3/2022   |              |              |             |             |              | 0.12      |
| 2/7/2023   | <0.1         | 0.07 (J)     | 0.069 (J)   | 0.06 (J)    | 0.064 (J)    |           |
| 2/8/2023   |              |              |             |             |              | 0.11      |

## Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12   | MGWC-2    | MGWC-3    | MGWC-7   | MGWC-8    |
|------------|-----------|-----------|-----------|----------|-----------|
| 5/5/2016   |           |           |           | 0.394    | 0.103 (J) |
| 5/6/2016   |           | 0.088 (J) | 0.086 (J) |          |           |
| 6/21/2016  | 0.14 (J)  | 0.19 (J)  | 0.23 (J)  | 0.49     | 0.1 (J)   |
| 8/15/2016  |           |           |           | 0.44     | 0.11 (J)  |
| 8/16/2016  | 0.29      | 0.087 (J) | <0.2      |          |           |
| 9/28/2016  |           |           |           | 0.4      | 0.1 (J)   |
| 9/29/2016  | 0.26      | <0.2      | 0.082 (J) |          |           |
| 11/16/2016 | 0.25      | <0.2      | 0.087 (J) | 0.36     | 0.091 (J) |
| 1/17/2017  |           |           | 0.086 (J) | 0.2      | <0.082    |
| 1/18/2017  | 0.26      | <0.2      |           |          |           |
| 3/2/2017   | 0.28      | 0.15 (J)  | 0.15 (J)  | 0.36     | 0.16 (J)  |
| 4/18/2017  |           |           | <0.2      | 0.29     | <0.082    |
| 4/19/2017  |           | <0.2      |           |          |           |
| 4/25/2017  | 0.25      |           |           |          |           |
| 7/13/2017  | 0.21      |           |           |          |           |
| 10/10/2017 | 0.22      | <0.2      | <0.2      | 0.28     | <0.082    |
| 3/29/2018  | 0.23      |           |           | 0.23     |           |
| 3/30/2018  |           | <0.2      | <0.2      |          | 0.088 (J) |
| 6/12/2018  | 0.23      |           |           |          |           |
| 6/13/2018  |           | <0.2      | <0.2      | 0.2      | 0.15 (J)  |
| 10/10/2018 | 0.25      | 0.085 (J) | <0.2      | 0.23     | 0.11 (J)  |
| 3/26/2019  | 0.22      | 0.076 (J) | 0.072 (J) | 0.19 (J) | 0.088 (J) |
| 9/10/2019  | 0.2       | 0.07 (J)  | 0.073 (J) | 0.15     | 0.083 (J) |
| 3/10/2020  | 0.15      | 0.05 (J)  | 0.058 (J) | 0.18     | 0.084 (J) |
| 9/16/2020  | 0.26      | 0.076 (J) |           |          |           |
| 9/17/2020  |           |           | 0.083 (J) | 0.25     | 0.11      |
| 3/24/2021  | 0.27      | 0.11      | 0.092 (J) | 0.35     | 0.11      |
| 8/24/2021  |           | 0.095 (J) | 0.11      |          |           |
| 8/25/2021  | 0.19      |           |           | 0.15     | 0.038 (J) |
| 2/22/2022  | 0.093 (J) |           |           |          |           |
| 2/23/2022  |           | 0.075 (J) | 0.086 (J) | 0.22     | 0.05 (J)  |
| 8/2/2022   | 0.074 (J) |           |           |          |           |
| 8/3/2022   |           |           | 0.079 (J) | 0.2      |           |
| 8/4/2022   |           | 0.072 (J) |           |          | 0.087 (J) |
| 2/7/2023   | 0.25      |           | 0.076 (J) |          |           |
| 2/8/2023   |           | 0.074 (J) |           | 0.14     | 0.084 (J) |

## Time Series

Constituent: Lead (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | <0.001       |              | <0.001      | <0.001      |              |        |
| 5/6/2016   |              |              |             |             |              | <0.001 |
| 6/20/2016  | <0.001       | 8.7E-05 (J)  | <0.001      |             |              |        |
| 6/21/2016  |              |              |             | <0.001      |              | <0.001 |
| 8/15/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              |        |
| 8/16/2016  |              |              |             |             |              | <0.001 |
| 9/28/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 11/16/2016 | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 1/16/2017  | <0.001       |              |             |             |              |        |
| 1/17/2017  |              | <0.001       | <0.001      | <0.001      |              |        |
| 1/19/2017  |              |              |             |             |              | <0.001 |
| 3/2/2017   | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 4/18/2017  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 7/13/2017  |              | <0.001       |             |             |              |        |
| 3/29/2018  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 1/28/2019  | <0.001       | <0.001       |             |             |              |        |
| 1/29/2019  |              |              | <0.001      | <0.001      | <0.001       | <0.001 |
| 1/28/2020  | <0.001       | 0.00016 (J)  | 0.00018 (J) | <0.001      | <0.001       |        |
| 1/29/2020  |              |              |             |             |              | <0.001 |
| 3/9/2020   | <0.001       | <0.001       |             |             |              |        |
| 3/10/2020  |              |              | <0.001      | <0.001      | <0.001       | <0.001 |
| 9/16/2020  | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |        |
| 9/17/2020  |              |              |             |             |              | <0.001 |
| 3/23/2021  | 0.00013 (J)  | 0.00013 (J)  |             | <0.001      | <0.001       |        |
| 3/24/2021  |              |              | <0.001      |             |              | <0.001 |
| 8/23/2021  | <0.001       | <0.001       |             |             |              |        |
| 8/24/2021  |              |              | <0.001      | <0.001      | <0.001       |        |
| 8/25/2021  |              |              |             |             |              | <0.001 |
| 2/22/2022  | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       | <0.001 |
| 8/2/2022   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |        |
| 8/3/2022   |              |              |             |             |              | <0.001 |
| 2/7/2023   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |        |
| 2/8/2023   |              |              |             |             |              | <0.001 |

## Time Series

Constituent: Lead (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3 | MGWC-7      | MGWC-8      |
|------------|------------|--------|--------|-------------|-------------|
| 5/5/2016   |            |        |        | <0.001      | <0.001      |
| 5/6/2016   |            | <0.001 | <0.001 |             |             |
| 6/21/2016  | 0.0001 (J) | <0.001 | <0.001 | 0.0003 (J)  | <0.001      |
| 8/15/2016  |            |        |        | <0.001      | <0.001      |
| 8/16/2016  | <0.001     | <0.001 | <0.001 |             |             |
| 9/28/2016  |            |        |        | <0.001      | <0.001      |
| 9/29/2016  | <0.001     | <0.001 | <0.001 |             |             |
| 11/16/2016 | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 1/17/2017  |            |        | <0.001 | <0.001      | <0.001      |
| 1/18/2017  | <0.001     | <0.001 |        |             |             |
| 3/2/2017   | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 4/18/2017  |            |        | <0.001 | <0.001      | <0.001      |
| 4/19/2017  |            | <0.001 |        |             |             |
| 4/25/2017  | <0.001     |        |        |             |             |
| 7/13/2017  | <0.001     |        |        |             |             |
| 3/29/2018  | <0.001     |        | <0.001 |             |             |
| 3/30/2018  |            | <0.001 | <0.001 |             | <0.001      |
| 1/29/2019  | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 1/28/2020  | <0.001     |        |        | <0.001      |             |
| 1/29/2020  |            | <0.001 | <0.001 |             | <0.001      |
| 3/10/2020  | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 9/16/2020  | <0.001     | <0.001 |        |             |             |
| 9/17/2020  |            |        | <0.001 | <0.001      | <0.001      |
| 3/24/2021  | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 8/24/2021  |            | <0.001 | <0.001 |             |             |
| 8/25/2021  | <0.001     |        |        | 0.00019 (J) | 0.00022 (J) |
| 2/22/2022  | <0.001     |        |        |             |             |
| 2/23/2022  |            | <0.001 | <0.001 | <0.001      | <0.001      |
| 8/2/2022   | <0.001     |        |        |             |             |
| 8/3/2022   |            |        | <0.001 | 0.00021 (J) |             |
| 8/4/2022   |            | <0.001 |        |             | <0.001      |
| 2/7/2023   | <0.001     |        | <0.001 |             |             |
| 2/8/2023   |            | <0.001 |        | <0.001      | <0.001      |

## Time Series

Constituent: Lithium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1     |
|------------|--------------|--------------|-------------|-------------|--------------|------------|
| 5/5/2016   | <0.05        |              | <0.05       | <0.005      |              |            |
| 5/6/2016   |              |              |             |             |              | 0.0128 (J) |
| 6/20/2016  | 0.0071 (J)   | 0.014 (J)    | 0.0065 (J)  |             |              |            |
| 6/21/2016  |              |              |             | <0.005      |              | 0.0102 (J) |
| 8/15/2016  | 0.0065       | 0.02         | 0.0059      | <0.005      |              |            |
| 8/16/2016  |              |              |             |             |              | 0.012      |
| 9/28/2016  | 0.0075       | 0.019        | 0.0075      | <0.005      |              | 0.012      |
| 11/16/2016 | 0.0081       | 0.021        | 0.0094      | <0.005      |              | 0.013      |
| 1/16/2017  | 0.0076       |              |             |             |              |            |
| 1/17/2017  |              | 0.02         | 0.01        | <0.005      |              |            |
| 1/19/2017  |              |              |             |             |              | 0.011      |
| 3/2/2017   | 0.0073       | 0.019        | 0.0076      | <0.005      |              | 0.013      |
| 4/18/2017  | 0.006        | 0.016        | 0.008       | <0.005      |              | 0.0097     |
| 7/13/2017  |              | 0.011        |             |             |              |            |
| 3/29/2018  | 0.01 (J)     | 0.03 (J)     | 0.014 (J)   | <0.005      |              | 0.017 (J)  |
| 6/12/2018  | 0.0068       | 0.012        | 0.0095      |             |              |            |
| 6/13/2018  |              |              |             | <0.005      |              | 0.0094     |
| 10/9/2018  | 0.0082       | 0.015        | 0.011       |             |              |            |
| 10/10/2018 |              |              |             | <0.005      |              | 0.011      |
| 1/28/2019  | 0.00821      | 0.0124       |             |             |              |            |
| 1/29/2019  |              |              | 0.00987     | <0.005      | 0.0184       | 0.0109     |
| 3/25/2019  | 0.0068       | 0.026        | 0.01        |             | 0.0052       |            |
| 3/26/2019  |              |              |             | <0.005      |              | 0.01       |
| 9/10/2019  | 0.011        | 0.026        | 0.011       | 0.0051      | 0.0062       | 0.012      |
| 1/28/2020  | 0.0064       | 0.026        | 0.0093      | <0.005      | <0.005       |            |
| 1/29/2020  |              |              |             |             |              | 0.0096     |
| 3/9/2020   | 0.0088       | 0.017        |             |             |              |            |
| 3/10/2020  |              |              | 0.011       | <0.005      | <0.005       | <0.025     |
| 9/16/2020  | 0.0079       | 0.014        | 0.0094      | <0.005      | <0.005       |            |
| 9/17/2020  |              |              |             |             |              | 0.0086     |
| 3/23/2021  | 0.0084       | 0.026        |             | <0.005      | <0.005       |            |
| 3/24/2021  |              |              | 0.0097      |             |              | 0.013      |
| 8/23/2021  | 0.0075       | 0.018        |             |             |              |            |
| 8/24/2021  |              |              | 0.0093      | <0.005      | <0.005       |            |
| 8/25/2021  |              |              |             |             |              | 0.0096     |
| 2/22/2022  | 0.0079       | 0.027        | 0.011       | <0.005      | 0.0012 (J)   | 0.01       |
| 8/2/2022   | 0.0071       | 0.025        | 0.0097      | <0.005      | <0.005       |            |
| 8/3/2022   |              |              |             |             |              | 0.01       |
| 2/7/2023   | 0.0081       | 0.022        | 0.011       | <0.005      | <0.005       |            |
| 2/8/2023   |              |              |             |             |              | 0.01       |

## Time Series

Constituent: Lithium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2     | MGWC-3     | MGWC-7   | MGWC-8     |
|------------|------------|------------|------------|----------|------------|
| 5/5/2016   |            |            |            | 0.0586   | 0.0252 (J) |
| 5/6/2016   |            | <0.05      | 0.0113 (J) |          |            |
| 6/21/2016  | 0.0112 (J) | 0.0047 (J) | 0.0103 (J) | 0.122    | 0.0228 (J) |
| 8/15/2016  |            |            |            | 0.12     | 0.026      |
| 8/16/2016  | 0.014      | 0.0043 (J) | 0.01       |          |            |
| 9/28/2016  |            |            |            | 0.12     | 0.026      |
| 9/29/2016  | 0.017      | 0.0048 (J) | 0.01       |          |            |
| 11/16/2016 | 0.016      | 0.0058     | 0.014      | 0.13     | 0.031      |
| 1/17/2017  |            |            | 0.014      | 0.14     | 0.032      |
| 1/18/2017  | 0.015      | 0.0051     |            |          |            |
| 3/2/2017   | 0.015      | 0.0061     | 0.013      | 0.13     | 0.031      |
| 4/18/2017  |            |            | 0.01       | 0.11     | 0.023      |
| 4/19/2017  |            | 0.0042 (J) |            |          |            |
| 4/25/2017  | 0.013      |            |            |          |            |
| 7/13/2017  | 0.014      |            |            |          |            |
| 3/29/2018  | 0.032 (J)  |            |            | 0.17 (J) |            |
| 3/30/2018  |            | 0.008 (J)  | 0.017 (J)  |          | 0.058 (J)  |
| 6/12/2018  | 0.019      |            |            |          |            |
| 6/13/2018  |            | 0.0054     | 0.011      | 0.12     | 0.035      |
| 10/10/2018 | 0.027      | 0.0055     | 0.013      | 0.13     | 0.046      |
| 1/29/2019  | 0.0172     | 0.00537    | 0.0106     | 0.112    | 0.0361     |
| 3/26/2019  | 0.02       | 0.0051     | 0.012      | 0.12     | 0.043      |
| 9/10/2019  | 0.023      | 0.0074     | 0.015      | 0.11     | 0.042      |
| 1/28/2020  | 0.022      |            |            | 0.13     |            |
| 1/29/2020  |            | 0.0059     | 0.012      |          | 0.037      |
| 3/10/2020  | 0.018      | 0.0068     | 0.014      | 0.11     | 0.028      |
| 9/16/2020  | 0.025      | 0.0055     |            |          |            |
| 9/17/2020  |            |            | 0.012      | 0.11     | 0.039      |
| 3/24/2021  | 0.018      | 0.0066     | 0.013      | 0.13     | 0.011      |
| 8/24/2021  |            | 0.0062     | 0.012      |          |            |
| 8/25/2021  | 0.017      |            |            | 0.12     | 0.037      |
| 2/22/2022  | 0.022      |            |            |          |            |
| 2/23/2022  |            | 0.0066     | 0.013      | 0.13     | 0.028      |
| 8/2/2022   | 0.026      |            |            |          |            |
| 8/3/2022   |            |            | 0.013      | 0.13     |            |
| 8/4/2022   |            | 0.0063     |            |          | 0.021      |
| 2/7/2023   | 0.024      |            | 0.014      |          |            |
| 2/8/2023   |            | 0.0065     |            | 0.14     | 0.012      |

## Time Series

Constituent: Mercury (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1  |
|------------|--------------|--------------|-------------|-------------|--------------|---------|
| 5/5/2016   | <0.0002      |              | <0.0002     | <0.0002     |              |         |
| 5/6/2016   |              |              |             |             |              | <0.0002 |
| 6/20/2016  | <0.0002      | <0.0002      | <0.0002     |             |              |         |
| 6/21/2016  |              |              |             | <0.0002     |              | <0.0002 |
| 8/15/2016  | <0.0002      | 8E-05 (J)    | <0.0002     | <0.0002     |              |         |
| 8/16/2016  |              |              |             |             |              | <0.0002 |
| 9/28/2016  | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 11/16/2016 | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 1/16/2017  | <0.0002      |              |             |             |              |         |
| 1/17/2017  |              | <0.0002      | <0.0002     | <0.0002     |              |         |
| 1/19/2017  |              |              |             |             |              | <0.0002 |
| 3/2/2017   | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 4/18/2017  | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 7/13/2017  |              | <0.0002      |             |             |              |         |
| 3/29/2018  | <0.0002      | 8.6E-05 (J)  | <0.0002     | 7.4E-05 (J) |              | <0.0002 |
| 6/12/2018  | <0.0002      | <0.0002      | <0.0002     |             |              |         |
| 6/13/2018  |              |              |             | <0.0002     |              | <0.0002 |
| 10/9/2018  | <0.0002      | <0.0002      | <0.0002     |             |              |         |
| 10/10/2018 |              |              |             | <0.0002     |              | <0.0002 |
| 1/28/2019  | <0.0002      | <0.0002      |             |             |              |         |
| 1/29/2019  |              |              | <0.0002     | <0.0002     | <0.0002      | <0.0002 |
| 1/28/2020  | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 1/29/2020  |              |              |             |             |              | <0.0002 |
| 3/9/2020   | <0.0002      | <0.0002      |             |             |              |         |
| 3/10/2020  |              |              | <0.0002     | <0.0002     | <0.0002      | <0.0002 |
| 9/16/2020  | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 9/17/2020  |              |              |             |             |              | <0.0002 |
| 3/23/2021  | <0.0002      | <0.0002      |             | <0.0002     | <0.0002      |         |
| 3/24/2021  |              |              | <0.0002     |             |              | <0.0002 |
| 8/23/2021  | <0.0002      | <0.0002      |             |             |              |         |
| 8/24/2021  |              |              | <0.0002     | <0.0002     | <0.0002      |         |
| 8/25/2021  |              |              |             |             |              | <0.0002 |
| 2/22/2022  | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      | <0.0002 |
| 8/2/2022   | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 8/3/2022   |              |              |             |             |              | <0.0002 |
| 2/7/2023   | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 2/8/2023   |              |              |             |             |              | <0.0002 |

## Time Series

Constituent: Mercury (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3    | MGWC-7    | MGWC-8      |
|------------|-------------|-------------|-----------|-----------|-------------|
| 5/5/2016   |             |             |           | <0.0002   | <0.0002     |
| 5/6/2016   |             | <0.0002     | <0.0002   |           |             |
| 6/21/2016  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/15/2016  |             |             |           | <0.0002   | 0.00015 (J) |
| 8/16/2016  | <0.0002     | 7.8E-05 (J) | <0.0002   |           |             |
| 9/28/2016  |             |             |           | <0.0002   | <0.0002     |
| 9/29/2016  | <0.0002     | <0.0002     | <0.0002   |           |             |
| 11/16/2016 | 8.6E-05 (J) | 0.0001 (J)  | 7E-05 (J) | 8E-05 (J) | 0.00021     |
| 1/17/2017  |             |             | <0.0002   | <0.0002   | 7.6E-05 (J) |
| 1/18/2017  | <0.0002     | <0.0002     |           |           |             |
| 3/2/2017   | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 4/18/2017  |             |             | <0.0002   | <0.0002   | 0.00018 (J) |
| 4/19/2017  |             | <0.0002     |           |           |             |
| 4/25/2017  | <0.0002     |             |           |           |             |
| 7/13/2017  | <0.0002     |             |           |           |             |
| 3/29/2018  | 7.4E-05 (J) |             |           | <0.0002   |             |
| 3/30/2018  |             | <0.0002     | <0.0002   |           | 0.00013 (J) |
| 6/12/2018  | <0.0002     |             |           |           |             |
| 6/13/2018  |             | <0.0002     | <0.0002   | <0.0002   | 0.00074     |
| 10/10/2018 | <0.0002     | <0.0002     | <0.0002   | <0.0002   | 0.00013 (J) |
| 1/29/2019  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 1/28/2020  | <0.0002     |             |           | <0.0002   |             |
| 1/29/2020  |             | <0.0002     | <0.0002   |           | 0.00012 (J) |
| 3/10/2020  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 9/16/2020  | <0.0002     | <0.0002     |           |           |             |
| 9/17/2020  |             |             | <0.0002   | <0.0002   | 0.00014 (J) |
| 3/24/2021  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/24/2021  |             | <0.0002     | <0.0002   |           |             |
| 8/25/2021  | <0.0002     |             |           | <0.0002   | 0.0041      |
| 10/26/2021 |             |             |           |           | <0.0002     |
| 2/22/2022  | <0.0002     |             |           |           |             |
| 2/23/2022  |             | <0.0002     | <0.0002   | <0.0002   | 0.00028     |
| 8/2/2022   | <0.0002     |             |           |           |             |
| 8/3/2022   |             |             | <0.0002   | <0.0002   |             |
| 8/4/2022   |             | <0.0002     |           |           | 0.00068     |
| 2/7/2023   | <0.0002     |             | <0.0002   |           |             |
| 2/8/2023   |             | <0.0002     |           | <0.0002   | 0.00026     |

## Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.015       |              |             | 0.0026 (J)  | <0.015       |             |
| 5/6/2016   |              |              |             |             |              | 0.0021 (J)  |
| 6/20/2016  | 0.00031 (J)  | 0.0052 (J)   | 0.0014 (J)  |             |              |             |
| 6/21/2016  |              |              |             | <0.015      |              | 0.002 (J)   |
| 8/15/2016  | <0.015       | 0.0022 (J)   | 0.0013 (J)  | <0.015      |              |             |
| 8/16/2016  |              |              |             |             |              | 0.0019 (J)  |
| 9/28/2016  | <0.015       | 0.0018 (J)   | 0.0012 (J)  | <0.015      |              | 0.0018 (J)  |
| 11/16/2016 | <0.015       | <0.015       | <0.015      | <0.015      |              | <0.075      |
| 1/16/2017  | <0.015       |              |             |             |              |             |
| 1/17/2017  |              | 0.0011 (J)   | <0.015      | <0.015      |              |             |
| 1/19/2017  |              |              |             |             |              | 0.0011 (J)  |
| 3/2/2017   | <0.015       | <0.015       | <0.015      | <0.015      |              | 0.0012 (J)  |
| 4/18/2017  | <0.015       | <0.015       | <0.015      | <0.015      |              | 0.0013 (J)  |
| 7/13/2017  |              | <0.015       |             |             |              |             |
| 3/29/2018  | <0.015       | <0.015       | <0.015      | <0.015      |              | 0.0017 (J)  |
| 6/12/2018  | 0.0012 (J)   | 0.0029 (J)   | <0.015      |             |              |             |
| 6/13/2018  |              |              |             | <0.015      |              | 0.00087 (J) |
| 10/9/2018  | <0.015       | <0.015       | <0.015      |             |              |             |
| 10/10/2018 |              |              |             | <0.015      |              | <0.075      |
| 1/28/2019  | <0.015       | <0.015       |             |             |              |             |
| 1/29/2019  |              |              | <0.015      | <0.015      | <0.015       | <0.075      |
| 1/28/2020  | 0.00064 (J)  | 0.00085 (J)  | 0.00095 (J) | <0.015      | 0.0014 (J)   |             |
| 1/29/2020  |              |              |             |             |              | 0.0015 (J)  |
| 3/9/2020   | <0.015       | 0.0012 (J)   |             |             |              |             |
| 3/10/2020  |              |              | 0.00093 (J) | <0.015      | 0.0012 (J)   | <0.075      |
| 9/16/2020  | 0.0022 (J)   | 0.0019 (J)   | 0.00079 (J) | <0.015      | 0.0014 (J)   |             |
| 9/17/2020  |              |              |             |             |              | 0.0012 (J)  |
| 3/23/2021  | <0.015       | 0.00093 (J)  |             | <0.015      | 0.00089 (J)  |             |
| 3/24/2021  |              |              | 0.00089 (J) |             |              | 0.0029 (J)  |
| 8/23/2021  | 0.0016 (J)   | 0.0012 (J)   |             |             |              |             |
| 8/24/2021  |              |              | <0.015      | <0.015      | 0.0011 (J)   |             |
| 8/25/2021  |              |              |             |             |              | 0.00088 (J) |
| 2/22/2022  | <0.015       | 0.001 (J)    | 0.00091 (J) | <0.015      | 0.00078 (J)  | 0.0014 (J)  |
| 8/2/2022   | <0.015       | <0.015       | <0.015      | <0.015      | 0.0015 (J)   |             |
| 8/3/2022   |              |              |             |             |              | 0.0011 (J)  |
| 2/7/2023   | <0.015       | 0.00098 (J)  | <0.015      | <0.015      | <0.015       |             |
| 2/8/2023   |              |              |             |             |              | 0.0012 (J)  |

## Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2 | MGWC-3 | MGWC-7      | MGWC-8     |
|------------|-------------|--------|--------|-------------|------------|
| 5/5/2016   |             |        |        | 0.00351 (J) | <0.015     |
| 5/6/2016   |             | <0.015 | <0.015 |             |            |
| 6/21/2016  | 0.002 (J)   | <0.015 | <0.015 | <0.015      | <0.015     |
| 8/15/2016  |             |        |        | <0.015      | <0.015     |
| 8/16/2016  | 0.0012 (J)  | <0.015 | <0.015 |             |            |
| 9/28/2016  |             |        |        | <0.015      | <0.015     |
| 9/29/2016  | 0.0014 (J)  | <0.015 | <0.015 |             |            |
| 11/16/2016 | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 1/17/2017  |             |        | <0.015 | <0.015      | <0.015     |
| 1/18/2017  | <0.015      | <0.015 |        |             |            |
| 3/2/2017   | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 4/18/2017  |             |        | <0.015 | <0.015      | 0.0037 (J) |
| 4/19/2017  |             | <0.015 |        |             |            |
| 4/25/2017  | <0.015      |        |        |             |            |
| 7/13/2017  | <0.015      |        |        |             |            |
| 3/29/2018  | <0.015      |        |        | <0.015      |            |
| 3/30/2018  |             | <0.015 | <0.015 |             | <0.015     |
| 6/12/2018  | <0.015      |        |        |             |            |
| 6/13/2018  |             | <0.015 | <0.015 | <0.015      | <0.015     |
| 10/10/2018 | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 1/29/2019  | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 1/28/2020  | <0.015      |        |        | <0.015      |            |
| 1/29/2020  |             | <0.015 | <0.015 |             | <0.015     |
| 3/10/2020  | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 9/16/2020  | 0.0024 (J)  | <0.015 |        |             |            |
| 9/17/2020  |             |        | <0.015 | <0.015      | <0.015     |
| 3/24/2021  | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 8/24/2021  |             | <0.015 | <0.015 |             |            |
| 8/25/2021  | <0.015      |        |        | <0.015      | <0.015     |
| 2/22/2022  | 0.00064 (J) |        |        |             |            |
| 2/23/2022  |             | <0.015 | <0.015 | <0.015      | <0.015     |
| 8/2/2022   | 0.00093 (J) |        |        |             |            |
| 8/3/2022   |             |        | <0.015 | <0.015      |            |
| 8/4/2022   |             | <0.015 |        |             | <0.015     |
| 2/7/2023   | <0.015      |        | <0.015 |             |            |
| 2/8/2023   |             | <0.015 |        | <0.015      | <0.015     |

## Time Series

Constituent: pH (SU) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1   |
|------------|--------------|--------------|-------------|-------------|--------------|----------|
| 5/5/2016   | 5.94         |              | 7.4         | 7.13        |              |          |
| 5/6/2016   |              |              |             |             |              | 6.64     |
| 6/20/2016  | 5.84 (D)     | 7.82         | 7.63        |             |              |          |
| 6/21/2016  |              |              |             | 7.25        |              | 6.99     |
| 8/15/2016  | 5.65         | 7.52         | 7.54        | 7.04        |              |          |
| 8/16/2016  |              |              |             |             |              | 6.48     |
| 9/28/2016  | 5.72         | 7.66         | 7.45        | 7.09        |              | 6.7      |
| 11/16/2016 | 5.65         | 7.51         | 7.39        | 7.6         |              | 6.66     |
| 1/16/2017  | 5.52         |              |             |             |              |          |
| 1/17/2017  |              | 7.52         | 7.23        | 6.99        |              |          |
| 1/19/2017  |              |              |             |             |              | 6.81     |
| 3/2/2017   | 5.53         | 7.5          | 7.55        | 6.95        |              | 6.75     |
| 4/18/2017  | 5.64         | 7.75         | 7.43        | 7.02        |              | 6.93     |
| 7/13/2017  |              | 7.72         |             |             |              |          |
| 10/10/2017 |              |              | 5.62        | 7.27        |              | 6.99     |
| 10/11/2017 | 6.11         | 6.35         |             |             |              |          |
| 3/29/2018  | 5.35         | 7.42         | 7.19        | 6.95        |              | 6.82     |
| 6/12/2018  | 6.23         | 8.02         | 7.55        |             |              |          |
| 6/13/2018  |              |              |             | 7.08        |              | 7.01     |
| 10/9/2018  | 5.62 (D)     | 7.79 (D)     | 7.8 (D)     |             |              |          |
| 10/10/2018 |              |              |             | 7.01 (D)    |              | 7.04 (D) |
| 1/28/2019  | 5.49 (D)     | 7.4 (D)      |             |             |              |          |
| 1/29/2019  |              |              | 7.63 (D)    | 6.55 (D)    | 6.93 (D)     | 6.87 (D) |
| 3/25/2019  | 5.27 (D)     | 7.29 (D)     | 7.44 (D)    |             | 7.1 (D)      |          |
| 3/26/2019  |              |              |             | 6.57 (D)    |              | 7.01 (D) |
| 9/10/2019  | 5.97         | 7.54         | 7.41        | 6.99        | 7.15         | 7.09     |
| 1/28/2020  | 5.78         | 7.4          | 7.46        | 7.17        | 7.36         |          |
| 1/29/2020  |              |              |             |             |              | 7.19     |
| 3/9/2020   | 5.46         | 7.58         |             |             |              |          |
| 3/10/2020  |              |              | 7.3         | 7           | 7.04         | 7.11     |
| 9/16/2020  | 6.37         | 7.89         | 7.38        | 6.98        | 6.89         |          |
| 9/17/2020  |              |              |             |             |              | 6.95     |
| 12/7/2020  |              |              | 7.2         |             |              |          |
| 12/8/2020  |              |              |             |             |              | 7.41     |
| 3/23/2021  | 5            | 7.06         |             | 6.74        | 6.56         |          |
| 3/24/2021  |              |              | 6.88        |             |              | 7.14     |
| 8/23/2021  | 6.16         | 8.12         |             |             |              |          |
| 8/24/2021  |              |              | 7.78        | 7.11        | 7.28         |          |
| 8/25/2021  |              |              |             |             |              | 7.27     |
| 2/22/2022  | 5.38         | 7.6          | 7.57        | 7.14        | 7.2          | 7.32     |
| 8/2/2022   | 5.41         | 7.57         | 7.45        | 7.1         | 7.27         |          |
| 8/3/2022   |              |              |             |             |              | 7.23     |
| 2/7/2023   | 5.46         | 7.72         | 7.85        | 7.13        | 7.24         |          |
| 2/8/2023   |              |              |             |             |              | 7.28     |

## Time Series

Constituent: pH (SU) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12   | MGWC-2   | MGWC-3   | MGWC-7   | MGWC-8   |
|------------|-----------|----------|----------|----------|----------|
| 5/5/2016   |           |          |          | 7.81     | 5.96     |
| 5/6/2016   |           | 7.41     | 6.85     |          |          |
| 6/21/2016  | 7.61      | 7.41     | 6.98     | 7.2      | 6        |
| 8/15/2016  |           |          |          | 7.04     | 5.26     |
| 8/16/2016  | 7.17      | 7.33     | 6.73     |          |          |
| 9/28/2016  |           |          |          | 7        | 5.66     |
| 9/29/2016  | 6.97      | 7.42     | 6.81     |          |          |
| 11/16/2016 | 7.03      | 7.87     | 6.69     | 6.73     | 5.33     |
| 1/17/2017  |           |          | 6.77     | 6.61     | 5.24     |
| 1/18/2017  | 7.01      | 7.49     |          |          |          |
| 3/2/2017   | 7.02      | 7.37     | 6.79     | 6.62     | 5.21     |
| 4/18/2017  |           |          | 6.77     | 6.7      | 5.85     |
| 4/19/2017  |           | 7.48     |          |          |          |
| 4/25/2017  | 7.02      |          |          |          |          |
| 7/13/2017  | 7.17      |          |          |          |          |
| 10/10/2017 | 7.24      | 7.29     | 7        | 6.48     | 5.6      |
| 3/29/2018  | 6.93      |          |          | 6.46     |          |
| 3/30/2018  |           | 7.31     | 6.68     |          | 5.16     |
| 6/12/2018  | 7.29      |          |          |          |          |
| 6/13/2018  |           | 7.37     | 6.83     | 6.24     | 5.79     |
| 10/10/2018 | 7.12 (D)  | 7.41 (D) | 6.69 (D) | 6.12 (D) | 5.15 (D) |
| 1/29/2019  | 8.02 (D)  | 7.03 (D) | 6.42 (D) | 5.93 (D) | 5.46 (D) |
| 3/26/2019  | 7.29 (D)  | 6.68 (D) | 5.96 (D) | 5.19 (D) | 7.14 (D) |
| 9/10/2019  | 10.96 (o) | 7.26     | 6.67     | 6.03     | 5.1      |
| 1/28/2020  | 7.25      |          |          | 6.61     |          |
| 1/29/2020  |           | 7.3      | 6.68     |          | 5.76     |
| 3/10/2020  | 7.53      | 7.3      | 6.87     | 6.54     | 5.5      |
| 9/16/2020  | 11.03 (o) | 7.16     |          |          |          |
| 9/17/2020  |           |          | 6.68     | 6.39     | 5.22     |
| 12/8/2020  |           |          | 7.04     |          |          |
| 3/24/2021  | 7.15      | 7.24     | 6.73     | 6.26     | 6.71     |
| 8/24/2021  |           | 7.42     | 6.92     |          |          |
| 8/25/2021  | 7.44      |          |          | 6.85     | 5.26     |
| 10/26/2021 |           |          |          |          | 5.99     |
| 2/22/2022  | 7.41      |          |          |          |          |
| 2/23/2022  |           | 7.44     | 6.98     | 6.91     | 6.22     |
| 8/2/2022   | 7.06      |          |          |          |          |
| 8/3/2022   |           |          | 6.91     | 6.86     |          |
| 8/4/2022   |           | 7.37     |          |          | 6.5      |
| 2/7/2023   | 6.95      |          | 7.01     |          |          |
| 2/8/2023   |           | 7.44     |          | 7.43     | 6.76     |

## Time Series

Constituent: Selenium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1     |
|------------|--------------|--------------|-------------|-------------|--------------|------------|
| 5/5/2016   | <0.005       |              | <0.005      | <0.005      |              |            |
| 5/6/2016   |              |              |             |             |              | <0.005     |
| 6/20/2016  | <0.005       | <0.005       | <0.005      |             |              |            |
| 6/21/2016  |              |              |             | <0.005      |              | <0.005     |
| 8/15/2016  | 0.00062 (J)  | <0.005       | <0.005      | <0.005      |              |            |
| 8/16/2016  |              |              |             |             |              | <0.005     |
| 9/28/2016  | 0.0003 (J)   | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 11/16/2016 | <0.005       | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 1/16/2017  | <0.005       |              |             |             |              |            |
| 1/17/2017  |              | <0.005       | <0.005      | <0.005      |              |            |
| 1/19/2017  |              |              |             |             |              | <0.005     |
| 3/2/2017   | <0.005       | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 4/18/2017  | <0.005       | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 7/13/2017  |              | <0.005       |             |             |              |            |
| 3/29/2018  | 0.00027 (J)  | <0.005       | <0.005      | <0.005      |              | 0.0005 (J) |
| 6/12/2018  | 0.00076 (J)  | 0.00049 (J)  | <0.005      |             |              |            |
| 6/13/2018  |              |              |             | <0.005      |              | <0.005     |
| 10/9/2018  | 0.00054 (J)  | <0.005       | <0.005      |             |              |            |
| 10/10/2018 |              |              |             | <0.005      |              | <0.005     |
| 1/28/2019  | <0.005       | <0.005       |             |             |              |            |
| 1/29/2019  |              |              | <0.005      | <0.005      | <0.005       | <0.005     |
| 1/28/2020  | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       |            |
| 1/29/2020  |              |              |             |             |              | <0.005     |
| 2/22/2022  | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       | <0.005     |
| 8/2/2022   | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       |            |
| 8/3/2022   |              |              |             |             |              | <0.005     |
| 2/7/2023   | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       |            |
| 2/8/2023   |              |              |             |             |              | <0.005     |

## Time Series

Constituent: Selenium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             | <0.005      | <0.005      |
| 5/6/2016   |             | <0.005      | <0.005      |             |             |
| 6/21/2016  | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/15/2016  |             |             |             | <0.005      | 0.00033 (J) |
| 8/16/2016  | <0.005      | <0.005      | <0.005      |             |             |
| 9/28/2016  |             |             |             | <0.005      | 0.00038 (J) |
| 9/29/2016  | <0.005      | <0.005      | <0.005      |             |             |
| 11/16/2016 | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/17/2017  |             |             | <0.005      | <0.005      | <0.005      |
| 1/18/2017  | <0.005      | <0.005      |             |             |             |
| 3/2/2017   | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 4/18/2017  |             |             | <0.005      | <0.005      | 0.0024      |
| 4/19/2017  |             | <0.005      |             |             |             |
| 4/25/2017  | <0.005      |             |             |             |             |
| 7/13/2017  | <0.005      |             |             |             |             |
| 3/29/2018  | 0.00027 (J) |             |             | 0.00026 (J) |             |
| 3/30/2018  |             | 0.00045 (J) | 0.00044 (J) |             | 0.00027 (J) |
| 6/12/2018  | <0.005      |             |             |             |             |
| 6/13/2018  |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 10/10/2018 | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/29/2019  | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/28/2020  | <0.005      |             |             | <0.005      |             |
| 1/29/2020  |             | <0.005      | <0.005      |             | <0.005      |
| 2/22/2022  | <0.005      |             |             |             |             |
| 2/23/2022  |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/2/2022   | <0.005      |             |             |             |             |
| 8/3/2022   |             |             | <0.005      | <0.005      |             |
| 8/4/2022   |             | <0.005      |             |             | <0.005      |
| 2/7/2023   | <0.005      |             | <0.005      |             |             |
| 2/8/2023   |             | <0.005      |             | <0.005      | <0.005      |

## Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 2.46         |              | 4.47        | 17.8        |              |        |
| 5/6/2016   |              |              |             |             |              | 106    |
| 6/20/2016  | 2.5          | 1            | 7.7         |             |              |        |
| 6/21/2016  |              |              |             | 17          |              | 210    |
| 8/15/2016  | 1.9          | 0.73 (J)     | 7.5         | 20          |              |        |
| 8/16/2016  |              |              |             |             |              | 120    |
| 9/28/2016  | 1.9          | <1.3         | 7.8         | 21          |              | 110    |
| 11/16/2016 | 1.7          | <1.3         | 6.7         | 20          |              | 130    |
| 1/16/2017  | <1           |              |             |             |              |        |
| 1/17/2017  |              | <1.3         | 6.7         | 19          |              |        |
| 1/19/2017  |              |              |             |             |              | 160    |
| 3/2/2017   | 1.4          | <1.3         | 5.6         | 15          |              | 130    |
| 4/18/2017  | 1.3          | <1.3         | 5.1         | 14          |              | 120    |
| 7/13/2017  |              | 1.4          |             |             |              |        |
| 10/10/2017 | 1.1          | 0.87 (J)     | 4.9         | 11          |              | 170    |
| 6/12/2018  | 0.82 (J)     | 4.1          | 3.8         |             |              |        |
| 6/13/2018  |              |              |             | 8.7         |              | 130    |
| 10/9/2018  | 0.82 (J)     | 2.2          | 6.7         |             |              |        |
| 10/10/2018 |              |              |             | 8.7         |              | 140    |
| 1/29/2019  |              |              |             |             | 7.08         |        |
| 3/25/2019  | <1           | <1.3         | 3.4 (J)     |             | 1.8 (J)      |        |
| 3/26/2019  |              |              |             | 6.3 (J)     |              | 130    |
| 9/10/2019  | 1.1          | 1.8          | 4.7         | 5.6         | 0.6 (J)      | 140    |
| 3/9/2020   | 4.2          | 3.4          |             |             |              |        |
| 3/10/2020  |              |              | 5.2         | 5           | 2.4          | 140    |
| 9/16/2020  | 0.69 (J)     | 3            | 3.2         | 2.7         | 1            |        |
| 9/17/2020  |              |              |             |             |              | 150    |
| 3/23/2021  | <1           | 1.4          |             | 3.2         | 1.7          |        |
| 3/24/2021  |              |              | 3.5         |             |              | 120    |
| 8/23/2021  | <1           | 3.4          |             |             |              |        |
| 8/24/2021  |              |              | 3.6         | 3.5         | 3.3          |        |
| 8/25/2021  |              |              |             |             |              | 140    |
| 2/22/2022  | <1           | 1.1          | 3.2         | 5.4         | 2.1          | 150    |
| 8/2/2022   | <1           | 0.8 (J)      | 2.7         | 2.3         | 2.1          |        |
| 8/3/2022   |              |              |             |             |              | 140    |
| 2/7/2023   | <1           | 3.3          | 2.5         | 2.3         | 1.6          |        |
| 2/8/2023   |              |              |             |             |              | 140    |

## Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 116    | 144    |
| 5/6/2016   |         | 445    | 94.2   |        |        |
| 6/21/2016  | 4       | 290    | 95     | 170    | 160    |
| 8/15/2016  |         |        |        | 170    | 120    |
| 8/16/2016  | 2.8     | 270    | 88     |        |        |
| 9/28/2016  |         |        |        | 170    | 130    |
| 9/29/2016  | <1      | 280    | 94     |        |        |
| 11/16/2016 | 3       | 280    | 97     | 170    | 130    |
| 1/17/2017  |         |        | 100    | 180    | 150    |
| 1/18/2017  | 4.1     | 280    |        |        |        |
| 3/2/2017   | 4.6     | 240    | 100    | 180    | 160    |
| 4/18/2017  |         |        | 91     | 160    | 180    |
| 4/19/2017  |         | 250    |        |        |        |
| 4/25/2017  | 4.4     |        |        |        |        |
| 7/13/2017  | 4.8     |        |        |        |        |
| 10/10/2017 | 4.9     | 240    | 110    | 180    | 260    |
| 6/12/2018  | 4.1     |        |        |        |        |
| 6/13/2018  |         | 220    | 110    | 180    | 330    |
| 10/10/2018 | 2.5     | 220    | 110    | 190    | 410    |
| 3/26/2019  | 2.9 (J) | 190    | 110    | 180    | 420    |
| 9/10/2019  | 2.5     | 180    | 110    | 180    | 420    |
| 3/10/2020  | 7.8     | 170    | 130    | 170    | 370    |
| 9/16/2020  | 4.4     | 160    |        |        |        |
| 9/17/2020  |         |        | 120    | 160    | 380    |
| 3/24/2021  | 7.1     | 180    | 130    | 180    | 280    |
| 8/24/2021  |         | 160    | 130    |        |        |
| 8/25/2021  | 6.6     |        |        | 180    | 420    |
| 2/22/2022  | 4.8     |        |        |        |        |
| 2/23/2022  |         | 180    | 150    | 260    | 390    |
| 8/2/2022   | 3.1     |        |        |        |        |
| 8/3/2022   |         |        | 130    | 220    |        |
| 8/4/2022   |         | 150    |        |        | 350    |
| 2/7/2023   | 4.7     |        | 120    |        |        |
| 2/8/2023   |         | 150    |        | 220    | 280    |

## Time Series

Constituent: TDS (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 78           |              | 129         | 281         |              |        |
| 5/6/2016   |              |              |             |             | 282          |        |
| 6/20/2016  | 80           | 188          | 156         |             |              |        |
| 6/21/2016  |              |              |             | 303         |              | 516    |
| 8/15/2016  | 58           | 180          | 160         | 310         |              |        |
| 8/16/2016  |              |              |             |             | 360          |        |
| 9/28/2016  | 29           | 100          | 91          | 170         |              | 190    |
| 11/16/2016 | 140          | 270          | 250         | 340         |              | 410    |
| 1/16/2017  | 36           |              |             |             |              |        |
| 1/17/2017  |              | 170          | 140         | 310         |              |        |
| 1/19/2017  |              |              |             |             | 400          |        |
| 3/2/2017   | 78           | 210          | 170         | 330         |              | 360    |
| 4/18/2017  | 16           | 160          | 140         | 290         |              | 360    |
| 7/13/2017  |              | 150          |             |             |              |        |
| 10/10/2017 | 78           | 210          | 190         | 310         |              | 480    |
| 6/12/2018  | 62           | 150          | 180         |             |              |        |
| 6/13/2018  |              |              |             | 230         |              | 390    |
| 10/9/2018  | 68           | 150          | 170         |             |              |        |
| 10/10/2018 |              |              |             | 300         |              | 260    |
| 1/29/2019  |              |              |             |             | 280          |        |
| 3/25/2019  | 54           | 210          | 150         |             | 250          |        |
| 3/26/2019  |              |              |             | 290         |              | 370    |
| 9/10/2019  | 14           | 160          | 110         | 260         | 230          | 360    |
| 3/9/2020   | 56           | 190          |             |             |              |        |
| 3/10/2020  |              |              | 170         | 300         | 260          | 450    |
| 9/16/2020  | 44           | 150          | 150         | 300         | 320          |        |
| 9/17/2020  |              |              |             |             |              | 460    |
| 3/23/2021  | 53           | 220          |             | 300         | 270          |        |
| 3/24/2021  |              |              | 150         |             |              | 380    |
| 8/23/2021  | 55           | 200          |             |             |              |        |
| 8/24/2021  |              |              | 160         | 300         | 280          |        |
| 8/25/2021  |              |              |             |             |              | 470    |
| 2/22/2022  | 38           | 210          | 150         | 300         | 270          | 420    |
| 8/2/2022   | 65           | 210          | 270         | 200         | 100 (D)      |        |
| 8/3/2022   |              |              |             |             |              | 440    |
| 2/7/2023   | 61           | 190          | 150         | 290         | 260          |        |
| 2/8/2023   |              |              |             |             |              | 400    |

## Time Series

Constituent: TDS (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 272    | 287    |
| 5/6/2016   |         | 661    | 380    |        |        |
| 6/21/2016  | 177     | 692    | 392    | 356    | 297    |
| 8/15/2016  |         |        |        | 330    | 230    |
| 8/16/2016  | 160     | 650    | 360    |        |        |
| 9/28/2016  |         |        |        | 180    | 130    |
| 9/29/2016  | 190     | 640    | 380    |        |        |
| 11/16/2016 | 240     | 680    | 420    | 330    | 290    |
| 1/17/2017  |         |        | 380    | 310    | 240    |
| 1/18/2017  | 180     | 630    |        |        |        |
| 3/2/2017   | 170     | 660    | 410    | 340    | 270    |
| 4/18/2017  |         |        | 360    | 300    | 310    |
| 4/19/2017  |         | 600    |        |        |        |
| 4/25/2017  | 170     |        |        |        |        |
| 7/13/2017  | 150     |        |        |        |        |
| 10/10/2017 | 160     | 600    | 400    | 340    | 450    |
| 6/12/2018  | 170     |        |        |        |        |
| 6/13/2018  |         | 570    | 320    | 320    | 600    |
| 10/10/2018 | 48      | 470    | 300    | 270    | 410    |
| 3/26/2019  | 180     | 530    | 370    | 320    | 630    |
| 9/10/2019  | 140     | 470    | 360    | 260    | 660    |
| 3/10/2020  | 170     | 540    | 390    | 370    | 600    |
| 9/16/2020  | 190     | 530    |        |        |        |
| 9/17/2020  |         |        | 410    | 320    | 740    |
| 3/24/2021  | 190     | 490    | 430    | 330    | 530    |
| 8/24/2021  |         | 510    | 450    |        |        |
| 8/25/2021  | 230     |        |        | 390    | 720    |
| 2/22/2022  | 190     |        |        |        |        |
| 2/23/2022  |         | 490    | 450    | 390    | 630    |
| 8/2/2022   | 150     |        |        |        |        |
| 8/3/2022   |         |        | 430    | 400    |        |
| 8/4/2022   |         | 480    |        |        | 620    |
| 2/7/2023   | 190     |        | 410    |        |        |
| 2/8/2023   |         | 440    |        | 370    | 480    |

## Time Series

Constituent: Thallium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.001       |              |             | <0.001      | <0.001       |             |
| 5/6/2016   |              |              |             |             |              | <0.001      |
| 6/20/2016  | <0.001       | <0.001       | <0.001      |             |              |             |
| 6/21/2016  |              |              |             | 0.0001 (J)  |              | 9E-05 (J)   |
| 8/15/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              |             |
| 8/16/2016  |              |              |             |             |              | <0.001      |
| 9/28/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001      |
| 11/16/2016 | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001      |
| 1/16/2017  | <0.001       |              |             |             |              |             |
| 1/17/2017  |              | <0.001       | <0.001      | <0.001      |              |             |
| 1/19/2017  |              |              |             |             |              | <0.001      |
| 3/2/2017   | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001      |
| 4/18/2017  | <0.001       | <0.001       | <0.001      | <0.001      |              | 9.5E-05 (J) |
| 7/13/2017  |              | <0.001       |             |             |              |             |
| 3/29/2018  | <0.001       | <0.001       | <0.001      | <0.001      |              | 0.00014 (J) |
| 6/12/2018  | <0.001       | <0.001       | <0.001      |             |              |             |
| 6/13/2018  |              |              |             | <0.001      |              | <0.001      |
| 10/9/2018  | <0.001       | <0.001       | <0.001      |             |              |             |
| 10/10/2018 |              |              |             | <0.001      |              | <0.001      |
| 1/28/2019  | <0.001       | <0.001       |             |             |              |             |
| 1/29/2019  |              |              | <0.001      | <0.001      | <0.001       | <0.001      |
| 1/28/2020  | <0.001       | 0.00033 (J)  | <0.001      | 0.00027 (J) | <0.001       |             |
| 1/29/2020  |              |              |             |             |              | 0.00032 (J) |
| 3/9/2020   | 0.00058 (J)  | 0.00036 (J)  |             |             |              |             |
| 3/10/2020  |              |              | 0.00015 (J) | 0.00019 (J) | <0.001       | <0.001      |
| 9/16/2020  | <0.001       | 0.00041 (J)  | 0.00018 (J) | 0.00021 (J) | <0.001       |             |
| 9/17/2020  |              |              |             |             |              | 0.00016 (J) |
| 3/23/2021  | 0.00046 (J)  | 0.00051 (J)  |             | 0.00025 (J) | <0.001       |             |
| 3/24/2021  |              |              | <0.001      |             |              | <0.001      |
| 8/23/2021  | <0.001       | 0.0004 (J)   |             |             |              |             |
| 8/24/2021  |              |              | <0.001      | 0.00017 (J) | <0.001       |             |
| 8/25/2021  |              |              |             |             |              | <0.001      |
| 2/22/2022  | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       | <0.001      |
| 8/2/2022   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |             |
| 8/3/2022   |              |              |             |             |              | <0.001      |
| 2/7/2023   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |             |
| 2/8/2023   |              |              |             |             |              | <0.001      |

## Time Series

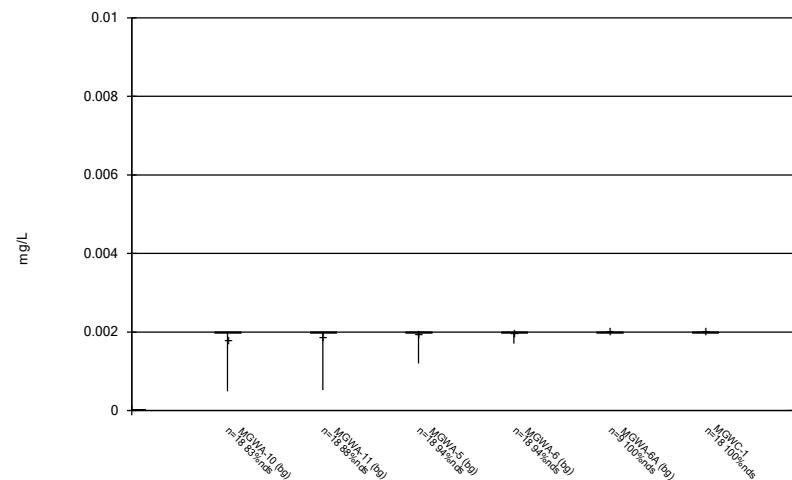
Constituent: Thallium (mg/L) Analysis Run 3/23/2023 8:45 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7 | MGWC-8      |
|------------|-------------|-------------|-------------|--------|-------------|
| 5/5/2016   |             |             |             | <0.001 | <0.001      |
| 5/6/2016   |             | <0.001      | <0.001      |        |             |
| 6/21/2016  | <0.001      | <0.001      | <0.001      | <0.001 | 0.0001 (J)  |
| 8/15/2016  |             |             |             | <0.001 | 0.00016 (J) |
| 8/16/2016  | <0.001      | <0.001      | <0.001      |        |             |
| 9/28/2016  |             |             |             | <0.001 | 0.00014 (J) |
| 9/29/2016  | <0.001      | <0.001      | <0.001      |        |             |
| 11/16/2016 | <0.001      | <0.001      | <0.001      | <0.001 | 9E-05 (J)   |
| 1/17/2017  |             |             | <0.001      | <0.001 | 0.00016 (J) |
| 1/18/2017  | <0.001      | <0.001      |             |        |             |
| 3/2/2017   | <0.001      | <0.001      | <0.001      | <0.001 | 0.00018 (J) |
| 4/18/2017  |             |             | <0.001      | <0.001 | 0.00019 (J) |
| 4/19/2017  |             | <0.001      |             |        |             |
| 4/25/2017  | <0.001      |             |             |        |             |
| 7/13/2017  | <0.001      |             |             |        |             |
| 3/29/2018  | <0.001      |             |             | <0.001 |             |
| 3/30/2018  |             | <0.001      | <0.001      |        | 0.00027 (J) |
| 6/12/2018  | <0.001      |             |             |        |             |
| 6/13/2018  |             | <0.001      | <0.001      | <0.001 | 0.00027 (J) |
| 10/10/2018 | <0.001      | <0.001      | <0.001      | <0.001 | 0.00025 (J) |
| 1/29/2019  | <0.001      | <0.001      | <0.001      | <0.001 | <0.001      |
| 1/28/2020  | <0.001      |             |             | <0.001 |             |
| 1/29/2020  |             | 0.00021 (J) | 0.00037 (J) |        | 0.00042 (J) |
| 3/10/2020  | 0.00015 (J) | <0.001      | 0.00016 (J) | <0.001 | 0.00025 (J) |
| 9/16/2020  | 0.00027 (J) | <0.001      |             |        |             |
| 9/17/2020  |             |             | <0.001      | <0.001 | 0.00031 (J) |
| 3/24/2021  | <0.001      | <0.001      | <0.001      | <0.001 | <0.001      |
| 8/24/2021  |             | <0.001      | <0.001      |        |             |
| 8/25/2021  | <0.001      |             |             | <0.001 | 0.0004 (J)  |
| 2/22/2022  | <0.001      |             |             |        |             |
| 2/23/2022  |             | <0.001      | <0.001      | <0.001 | <0.001      |
| 8/2/2022   | <0.001      |             |             |        |             |
| 8/3/2022   |             |             | <0.001      | <0.001 |             |
| 8/4/2022   |             | <0.001      |             |        | <0.001      |
| 2/7/2023   | <0.001      |             | <0.001      |        |             |
| 2/8/2023   |             | <0.001      |             | <0.001 | <0.001      |

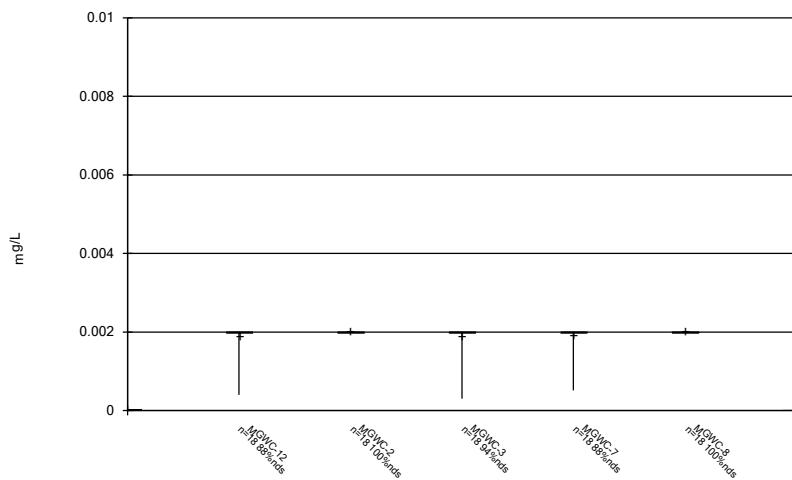
**FIGURE B.**

## Box &amp; Whiskers Plot



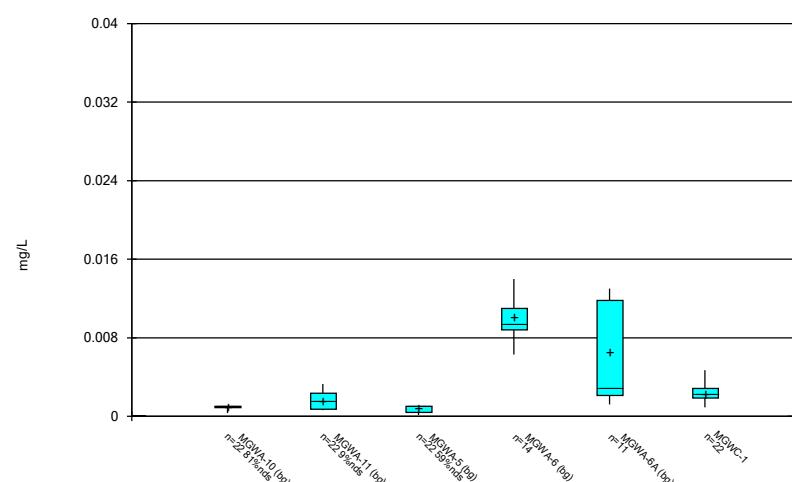
Constituent: Antimony Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



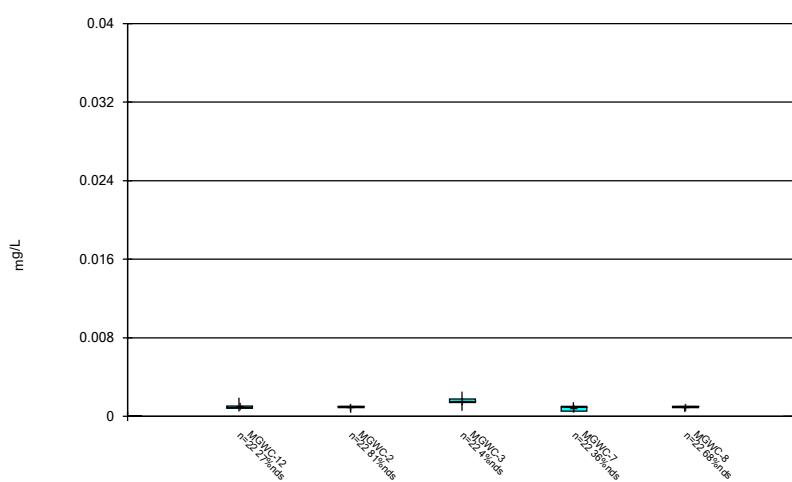
Constituent: Antimony Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



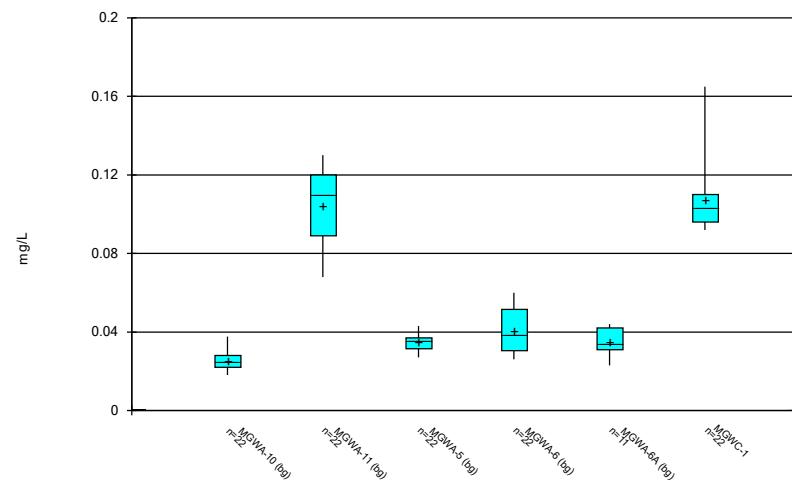
Constituent: Arsenic Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



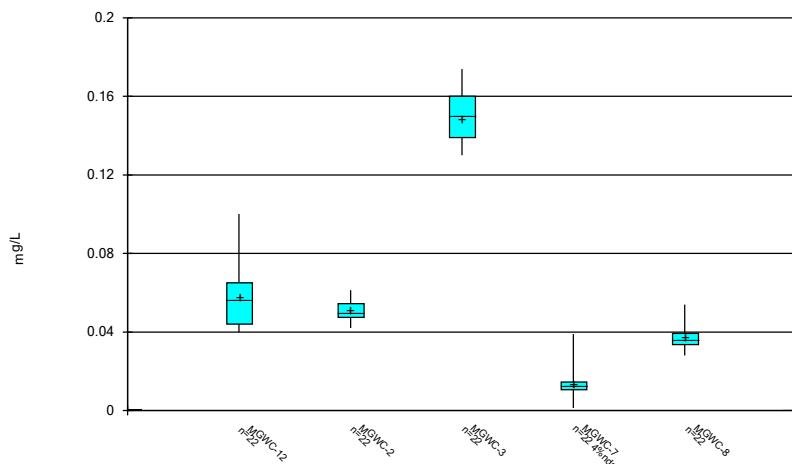
Constituent: Arsenic Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



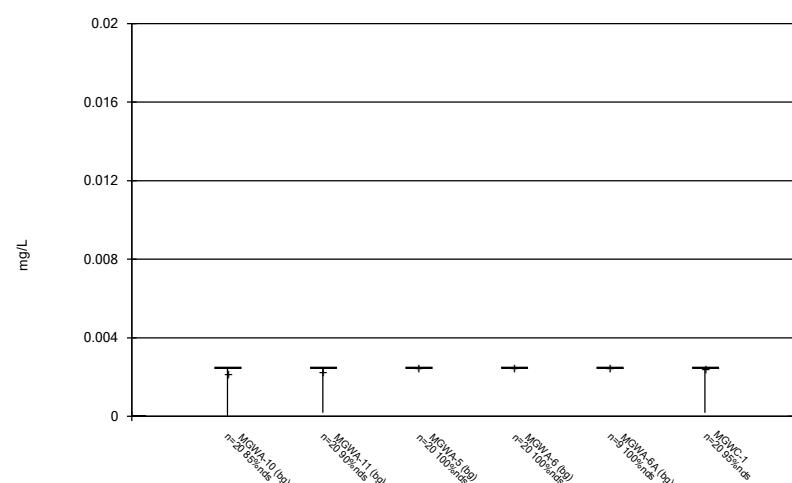
Constituent: Barium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



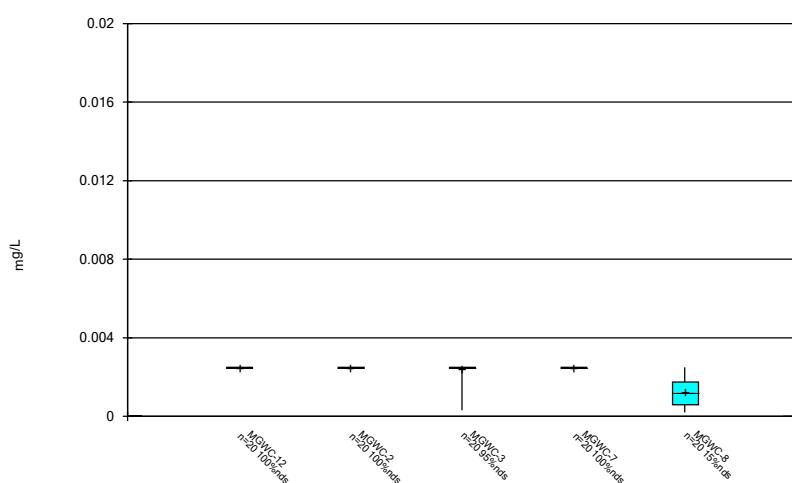
Constituent: Barium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



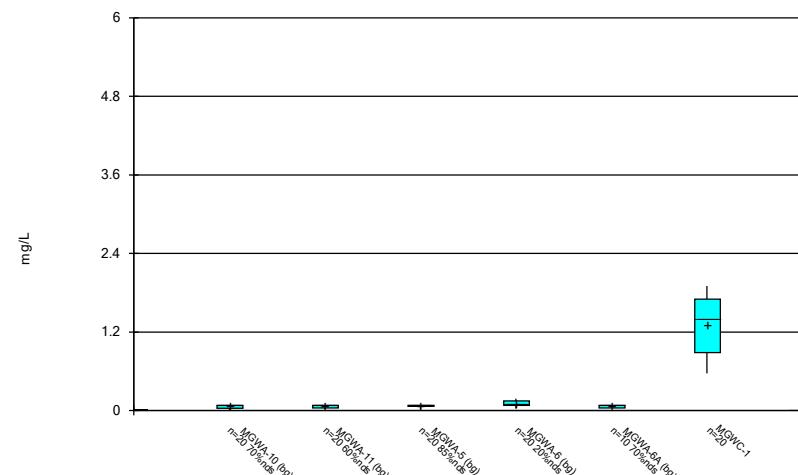
Constituent: Beryllium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



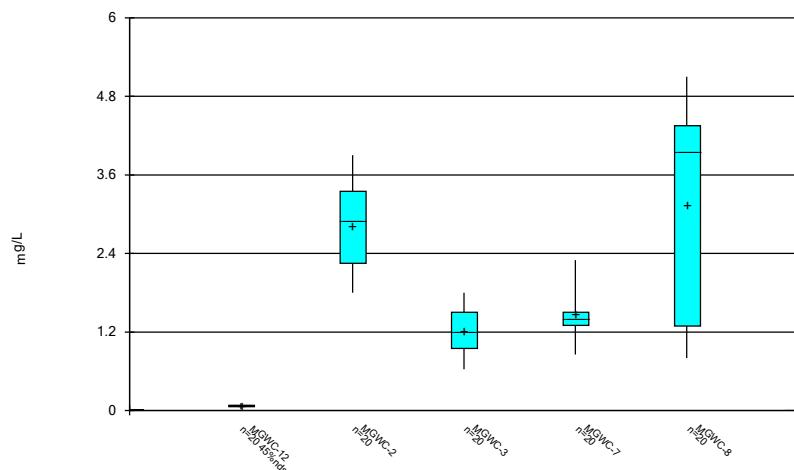
Constituent: Beryllium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Box & Whiskers Plot



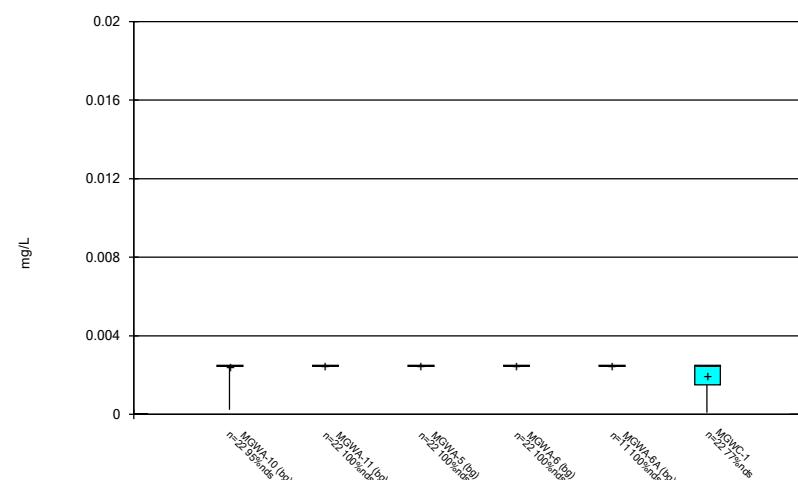
Constituent: Boron Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Box & Whiskers Plot



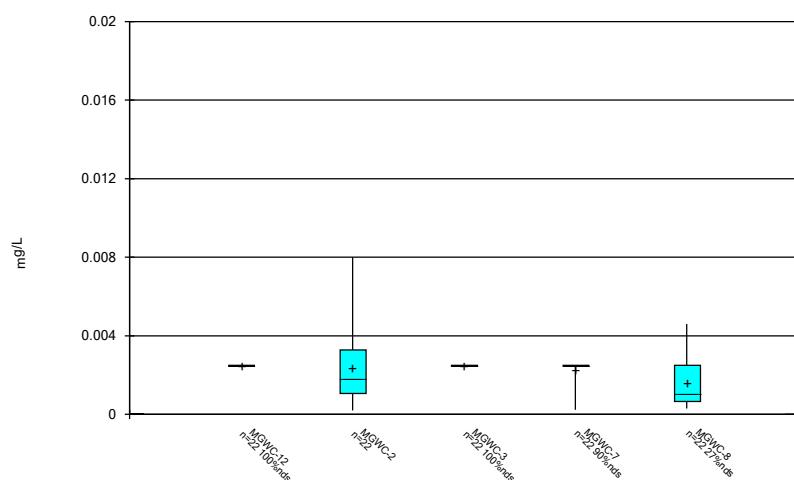
Constituent: Boron Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Box & Whiskers Plot



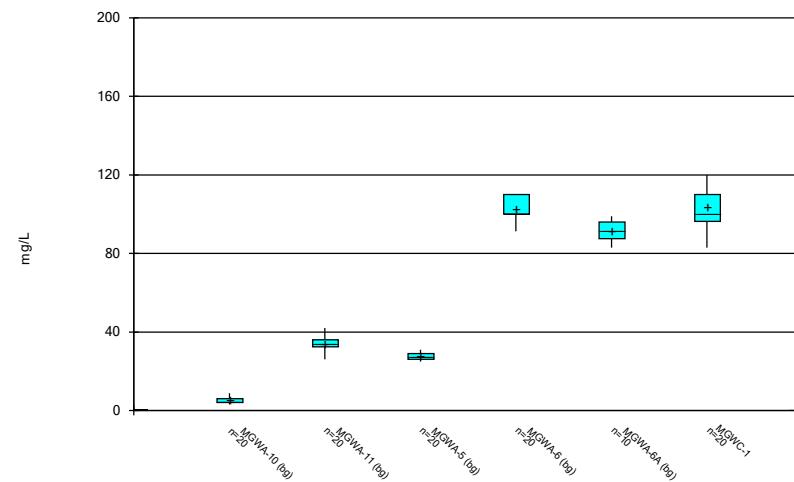
Constituent: Cadmium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Box & Whiskers Plot



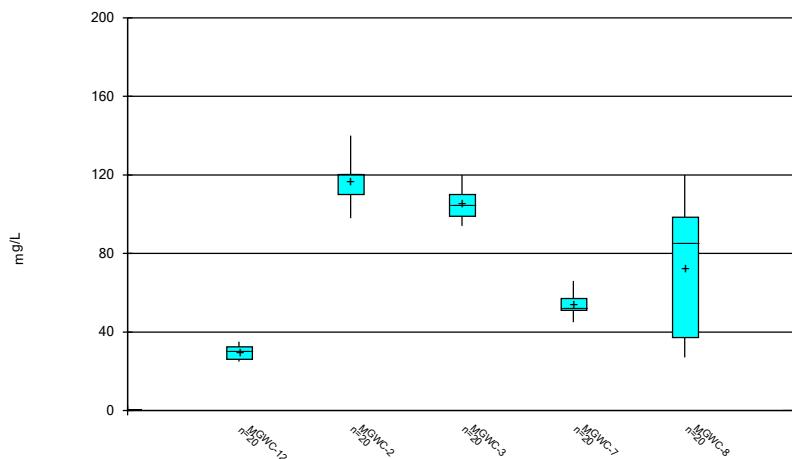
Constituent: Cadmium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



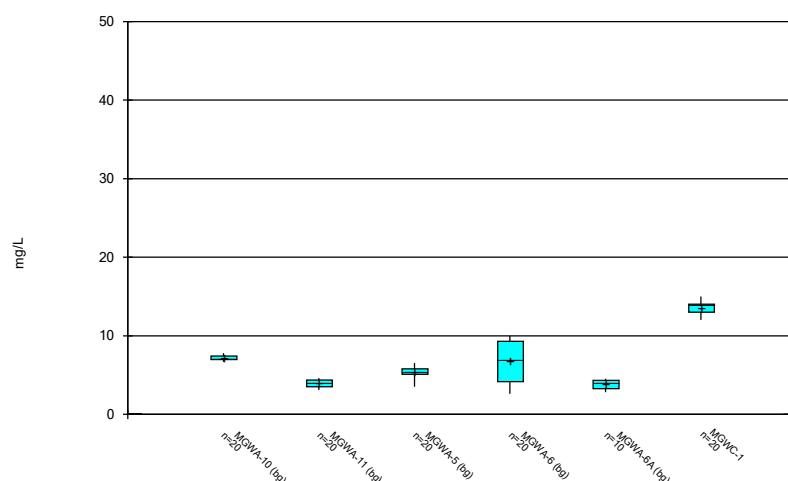
Constituent: Calcium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



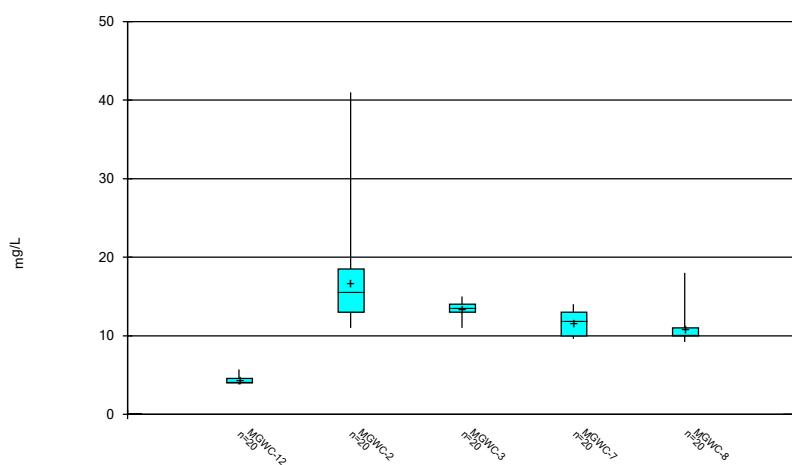
Constituent: Calcium Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



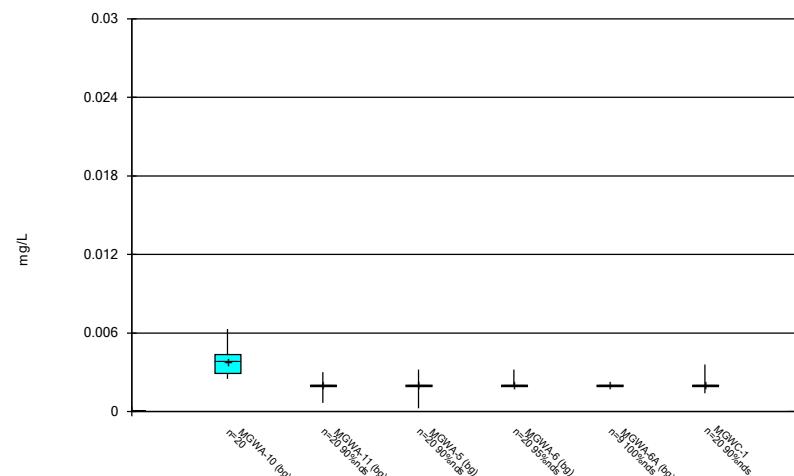
Constituent: Chloride Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot

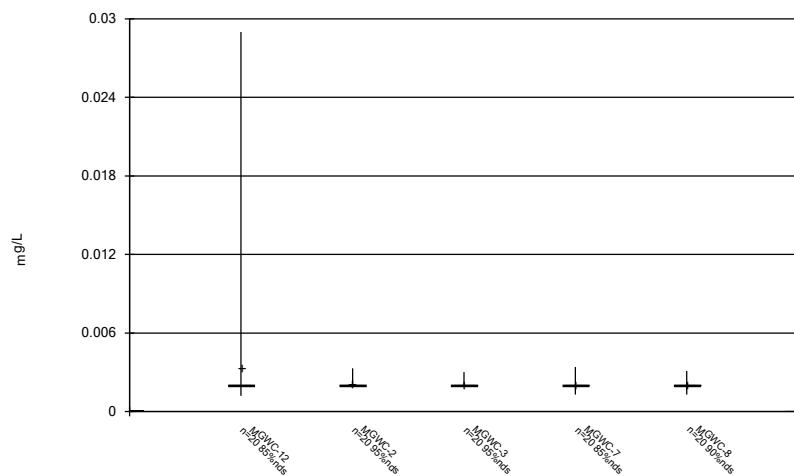


Constituent: Chloride Analysis Run 3/23/2023 8:58 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

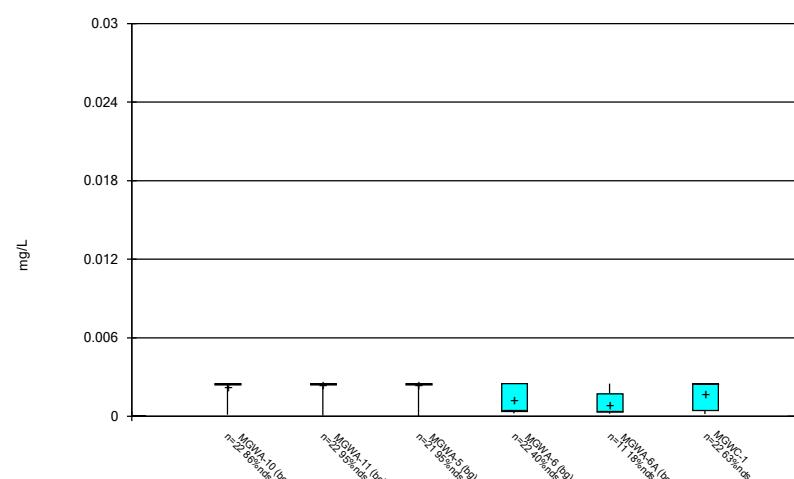
## Box &amp; Whiskers Plot



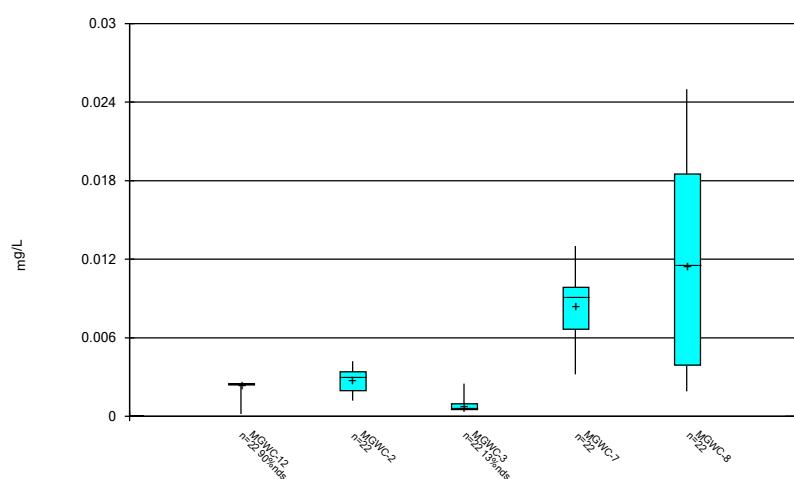
## Box &amp; Whiskers Plot



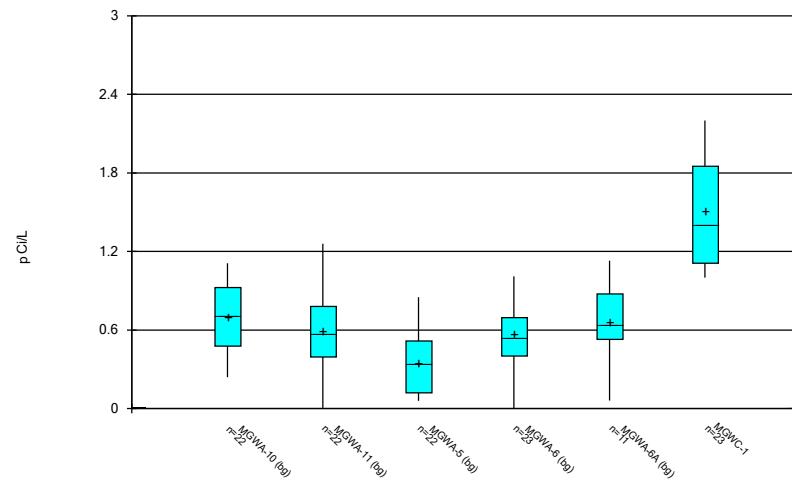
## Box &amp; Whiskers Plot



## Box &amp; Whiskers Plot

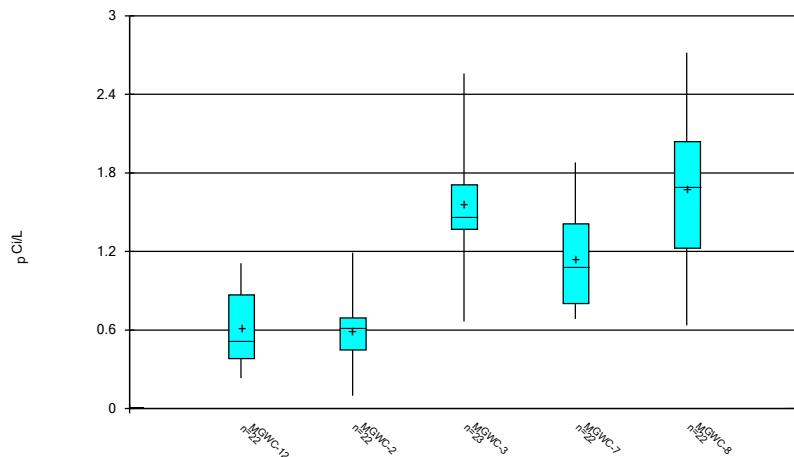


## Box &amp; Whiskers Plot



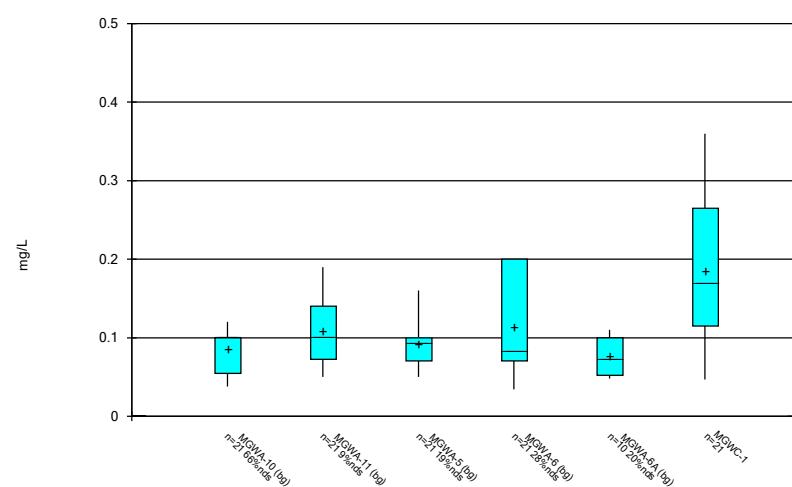
Constituent: Combined Radium 226 + 228 Analysis Run 3/23/2023 8:58 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



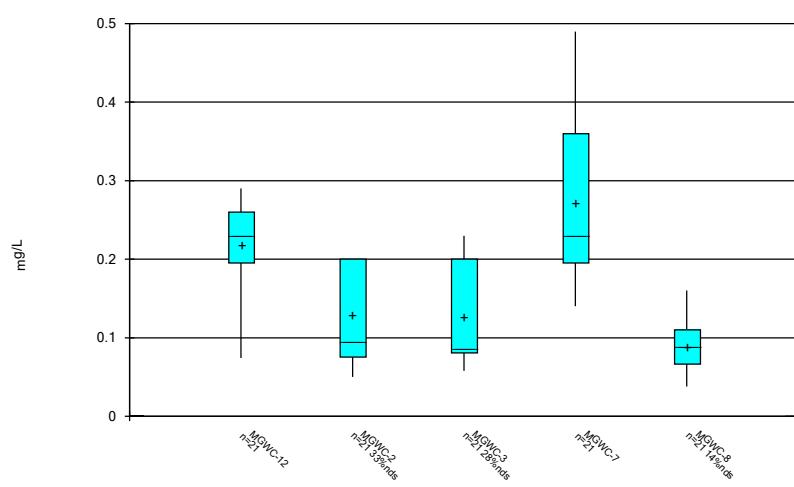
Constituent: Combined Radium 226 + 228 Analysis Run 3/23/2023 8:58 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



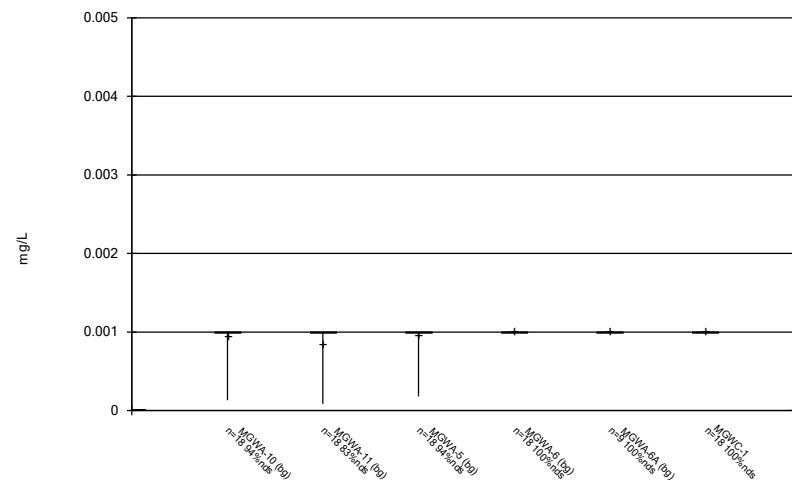
Constituent: Fluoride Analysis Run 3/23/2023 8:58 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot

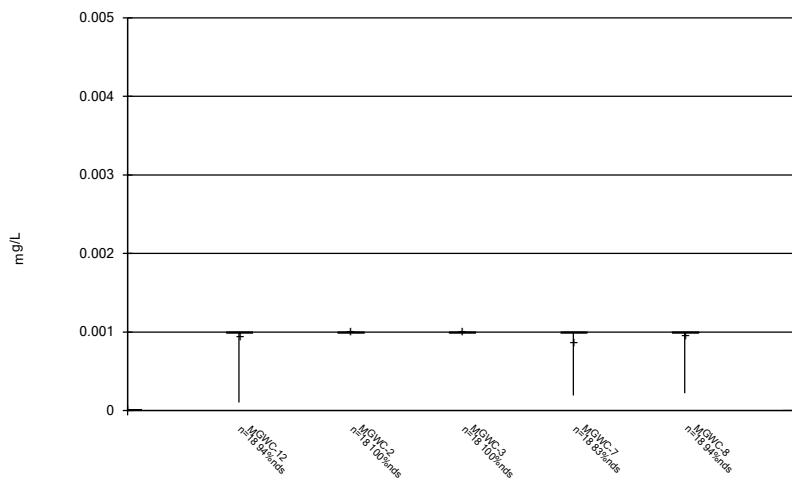


Constituent: Fluoride Analysis Run 3/23/2023 8:58 PM View: Constituents View  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

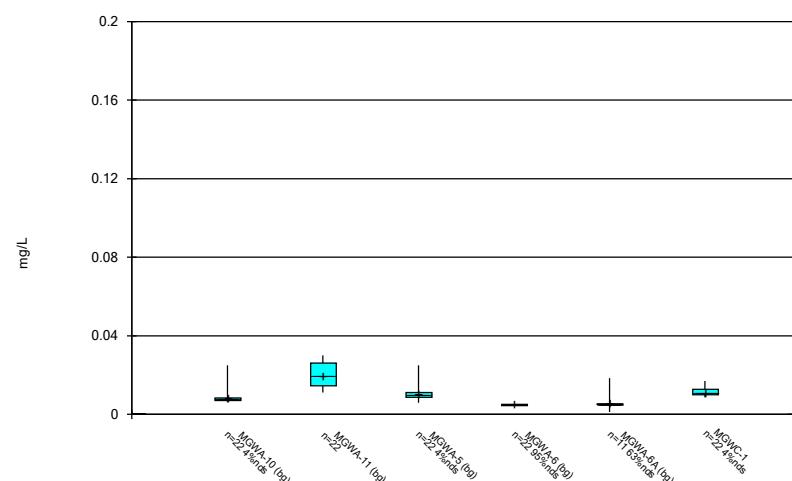
## Box &amp; Whiskers Plot



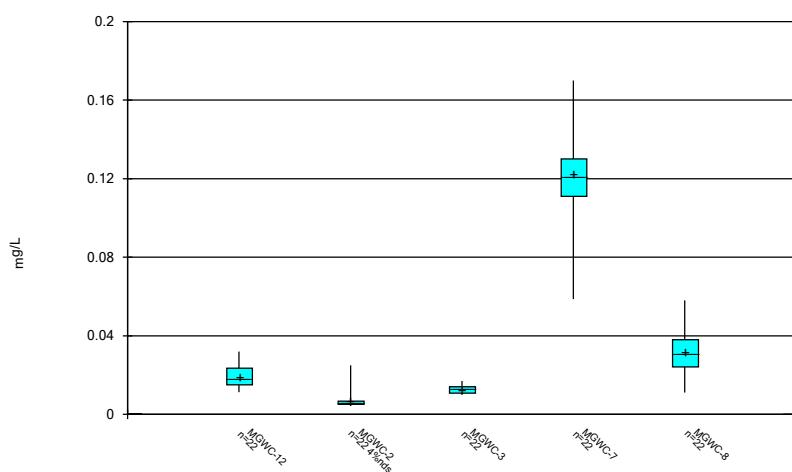
## Box &amp; Whiskers Plot



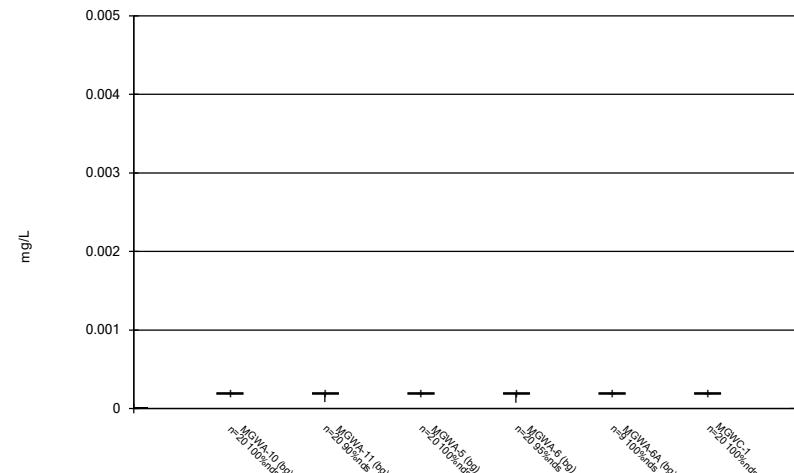
## Box &amp; Whiskers Plot



## Box &amp; Whiskers Plot

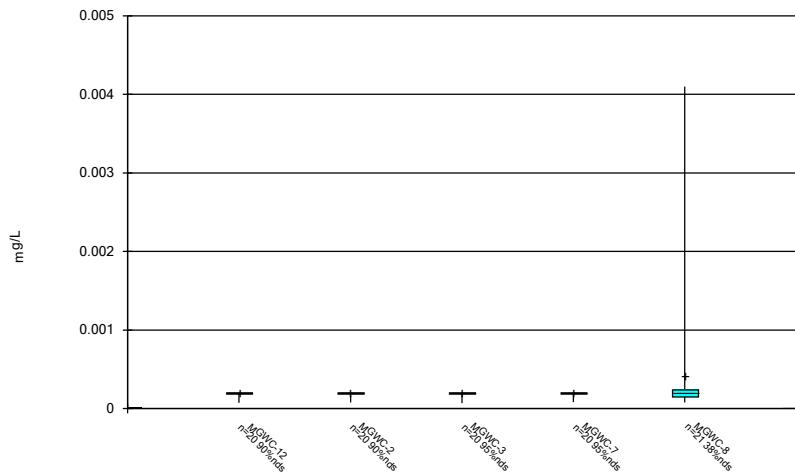


### Box & Whiskers Plot



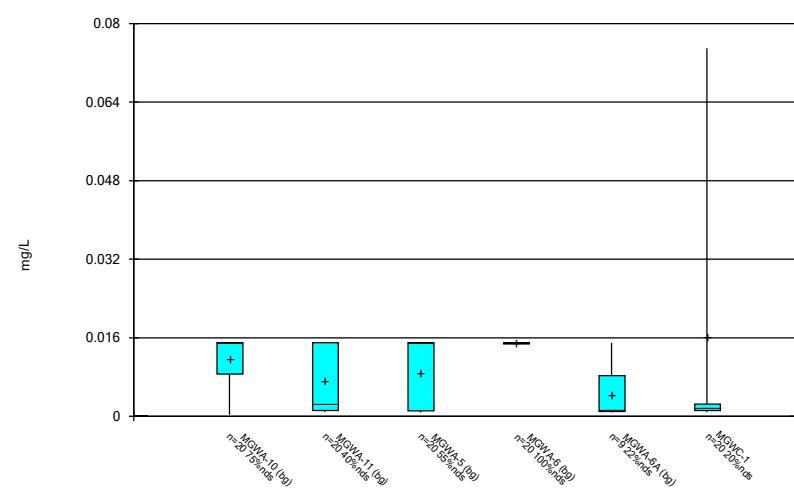
Constituent: Mercury   Analysis Run 3/23/2023 8:59 PM   View: Constituents View  
 Plant McIntosh   Client: Southern Company   Data: McIntosh Ash Pond

### Box & Whiskers Plot



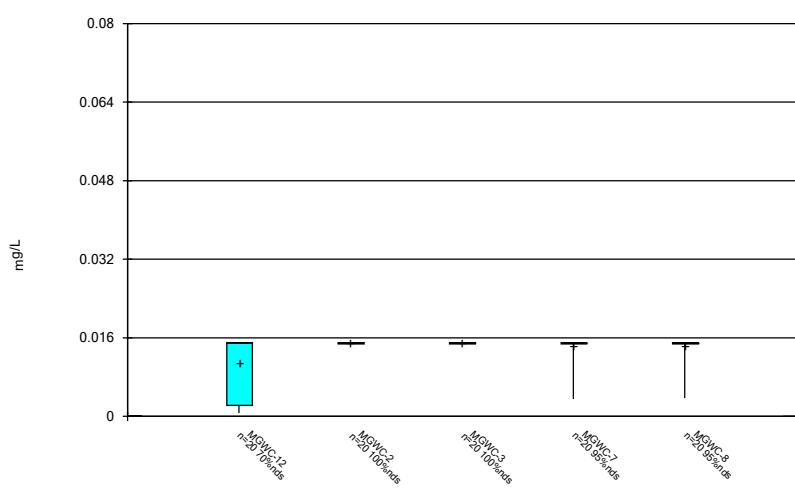
Constituent: Mercury   Analysis Run 3/23/2023 8:59 PM   View: Constituents View  
 Plant McIntosh   Client: Southern Company   Data: McIntosh Ash Pond

### Box & Whiskers Plot



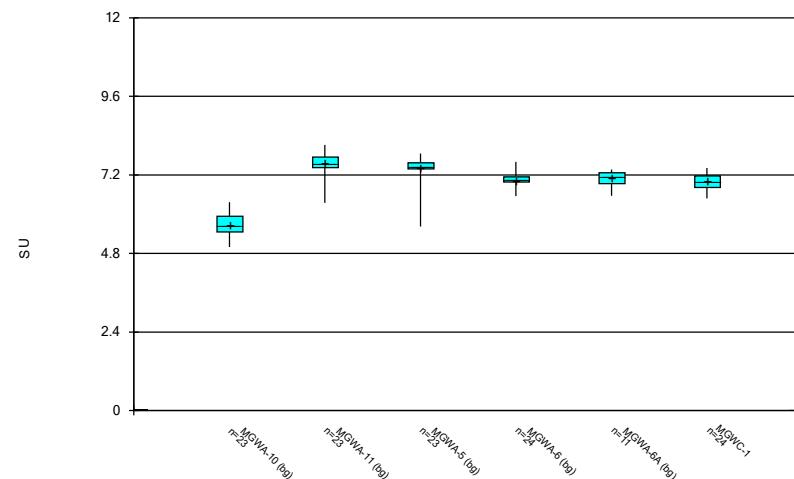
Constituent: Molybdenum   Analysis Run 3/23/2023 8:59 PM   View: Constituents View  
 Plant McIntosh   Client: Southern Company   Data: McIntosh Ash Pond

### Box & Whiskers Plot



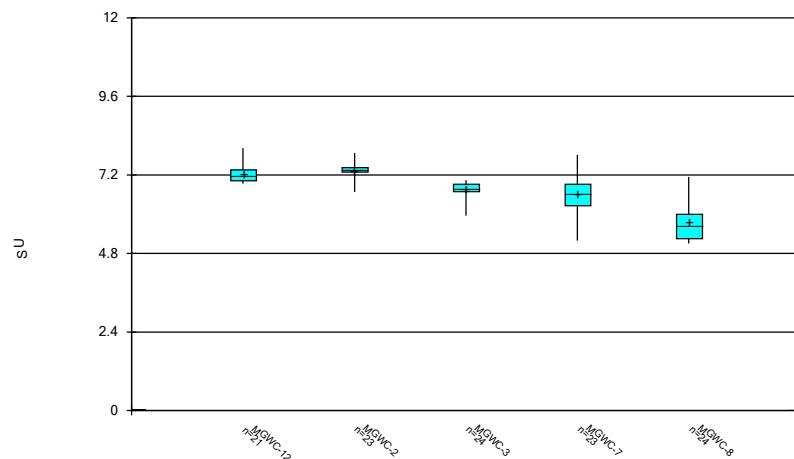
Constituent: Molybdenum   Analysis Run 3/23/2023 8:59 PM   View: Constituents View  
 Plant McIntosh   Client: Southern Company   Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



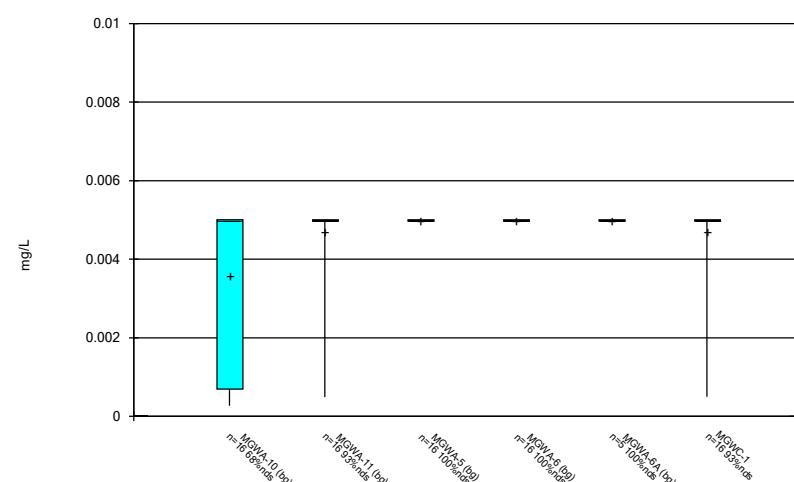
Constituent: pH Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



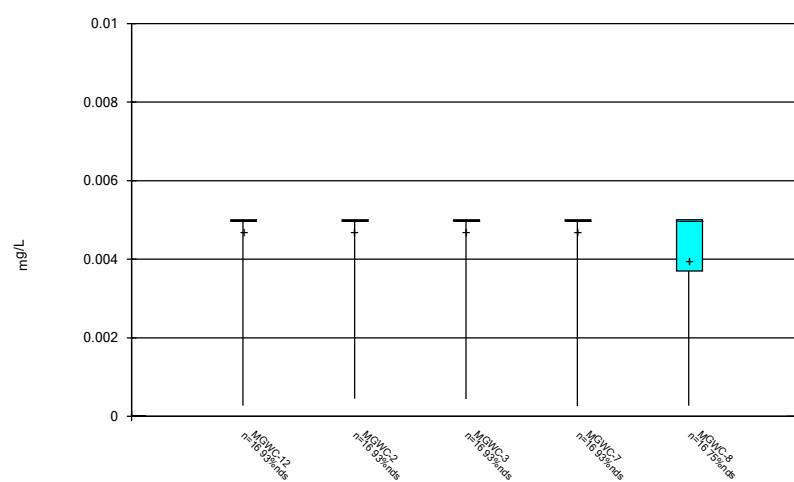
Constituent: pH Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



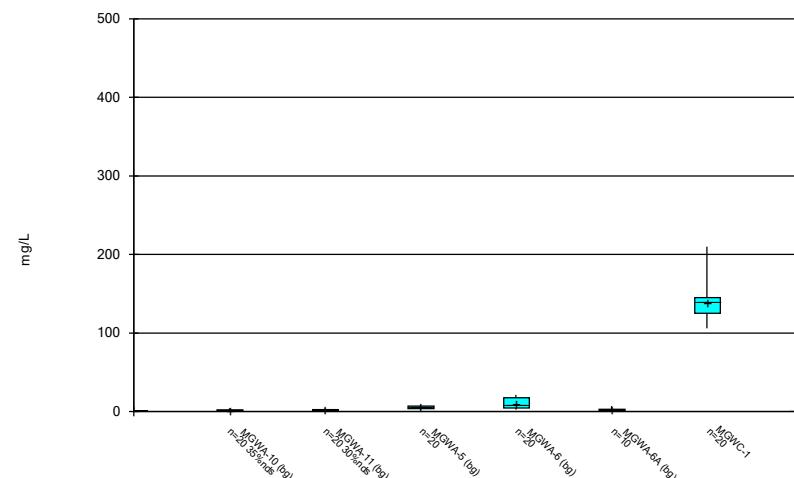
Constituent: Selenium Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



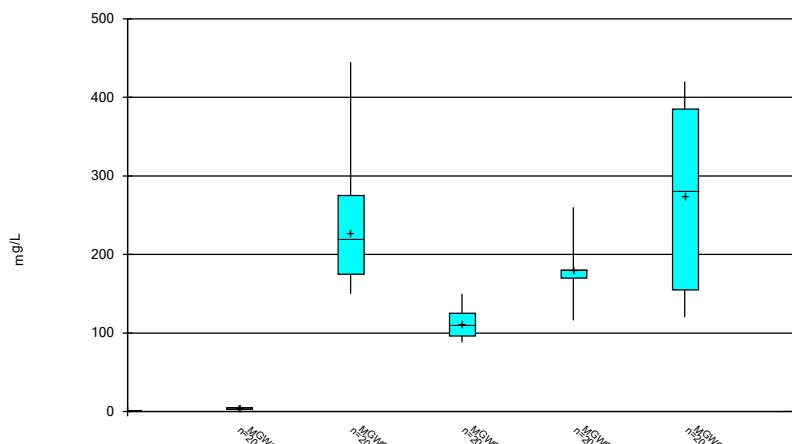
Constituent: Selenium Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



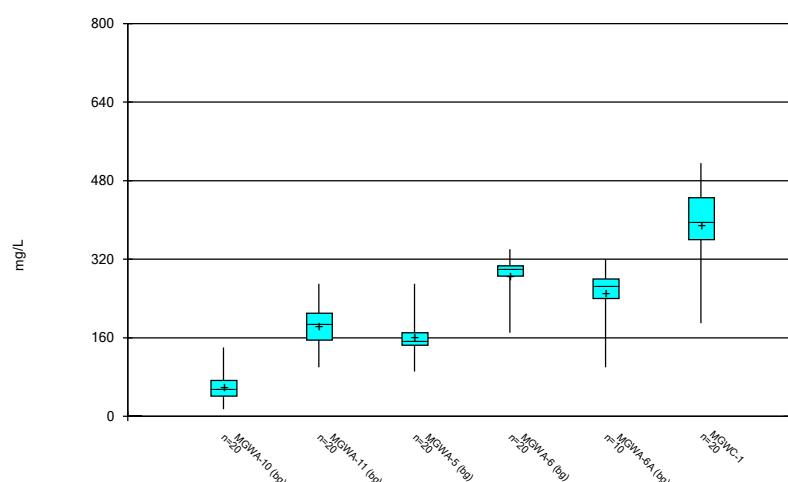
Constituent: Sulfate Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



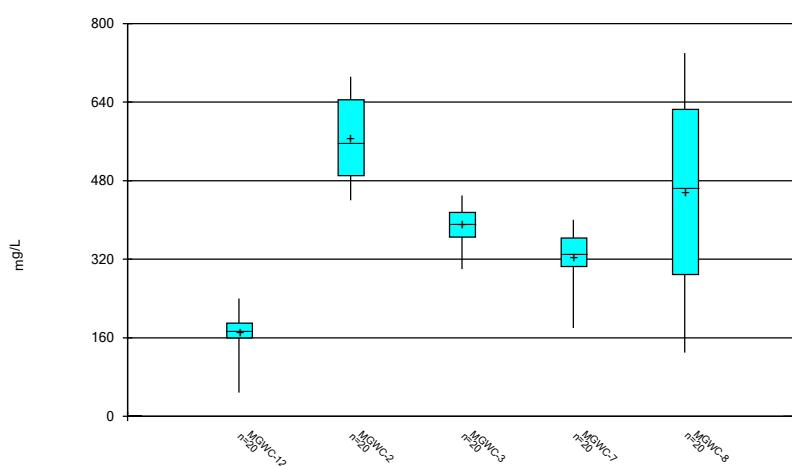
Constituent: Sulfate Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



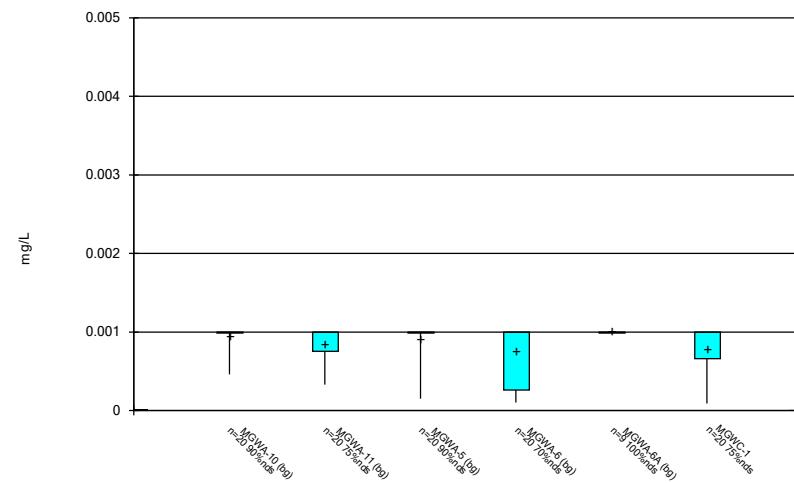
Constituent: TDS Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



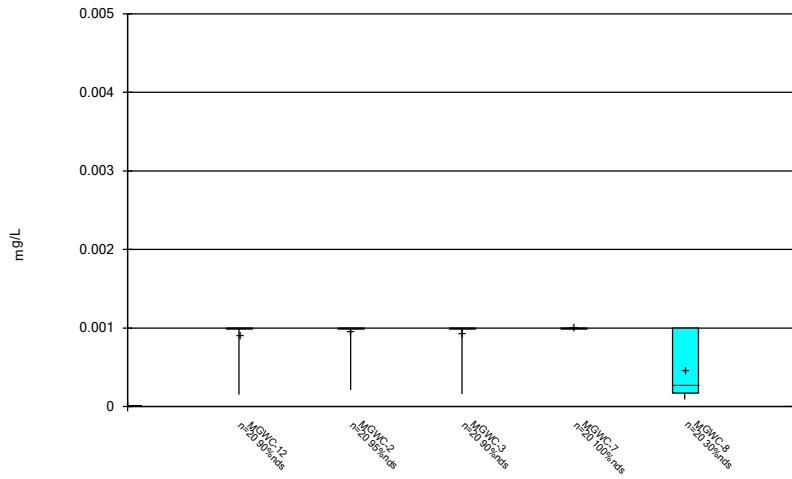
Constituent: TDS Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



Constituent: Thallium Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



Constituent: Thallium Analysis Run 3/23/2023 8:59 PM View: Constituents View  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## FIGURE C.

# Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:00 AM

---

MGVA-5 Cobalt (mg/L)  
MGWC-12 pH (SU)

|           |           |
|-----------|-----------|
| 9/10/2019 | 10.96 (o) |
| 9/16/2020 | 11.03 (o) |
| 8/2/2022  | 0.012 (o) |

**FIGURE D.**

## Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:02 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 2/8/2023    | 1.5            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 2/8/2023    | 1.8            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 2/7/2023    | 0.63           | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 2/8/2023    | 2.1            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 2/8/2023    | 3.9            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Chloride (mg/L)    | MGWC-1      | 9.334             | n/a               | 2/8/2023    | 12             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.334             | n/a               | 2/7/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.334             | n/a               | 2/8/2023    | 13             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 2/7/2023    | 0.25           | Yes         | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.96             | n/a               | 2/8/2023    | 140            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.96             | n/a               | 2/8/2023    | 150            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.96             | n/a               | 2/7/2023    | 120            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.96             | n/a               | 2/8/2023    | 220            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.96             | n/a               | 2/8/2023    | 280            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 346.6             | n/a               | 2/8/2023    | 400            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 346.6             | n/a               | 2/8/2023    | 440            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 346.6             | n/a               | 2/7/2023    | 410            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 346.6             | n/a               | 2/8/2023    | 370            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 346.6             | n/a               | 2/8/2023    | 480            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

# Interwell Prediction Limits - All Results

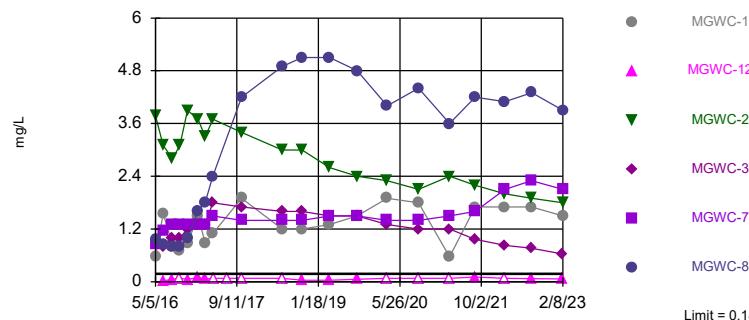
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:02 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 2/8/2023    | 1.5            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-12     | 0.18              | n/a               | 2/7/2023    | 0.067J         | No          | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 2/8/2023    | 1.8            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 2/7/2023    | 0.63           | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 2/8/2023    | 2.1            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 2/8/2023    | 3.9            | Yes         | 90          | n/a            | n/a              | 60          | n/a            | n/a              | 0.0002374    | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)     | MGWC-1      | 110               | n/a               | 2/8/2023    | 110            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-12     | 110               | n/a               | 2/7/2023    | 30             | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-2      | 110               | n/a               | 2/8/2023    | 100            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-3      | 110               | n/a               | 2/7/2023    | 110            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-7      | 110               | n/a               | 2/8/2023    | 65             | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-8      | 110               | n/a               | 2/8/2023    | 110            | No          | 90          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002374    | NP Inter (normality) 1 of 2 |
| Chloride (mg/L)    | MGWC-1      | 9.334             | n/a               | 2/8/2023    | 12             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-12     | 9.334             | n/a               | 2/7/2023    | 4.2            | No          | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.334             | n/a               | 2/7/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.334             | n/a               | 2/8/2023    | 11             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.334             | n/a               | 2/8/2023    | 13             | Yes         | 90          | 2.338          | 0.3884           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-1      | 0.19              | n/a               | 2/8/2023    | 0.11           | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 2/7/2023    | 0.25           | Yes         | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-2      | 0.19              | n/a               | 2/8/2023    | 0.074J         | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-3      | 0.19              | n/a               | 2/7/2023    | 0.076J         | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-7      | 0.19              | n/a               | 2/8/2023    | 0.14           | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-8      | 0.19              | n/a               | 2/8/2023    | 0.084J         | No          | 94          | n/a            | n/a              | 29.79       | n/a            | n/a              | 0.0002197    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-1      | 8.12              | 5                 | 2/8/2023    | 7.28           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-12     | 8.12              | 5                 | 2/7/2023    | 6.95           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-2      | 8.12              | 5                 | 2/8/2023    | 7.44           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-3      | 8.12              | 5                 | 2/7/2023    | 7.01           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-7      | 8.12              | 5                 | 2/8/2023    | 7.43           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-8      | 8.12              | 5                 | 2/8/2023    | 6.76           | No          | 104         | n/a            | n/a              | 0           | n/a            | n/a              | 0.000363     | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.96             | n/a               | 2/8/2023    | 140            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-12     | 17.96             | n/a               | 2/7/2023    | 4.7            | No          | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.96             | n/a               | 2/8/2023    | 150            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.96             | n/a               | 2/7/2023    | 120            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.96             | n/a               | 2/8/2023    | 220            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.96             | n/a               | 2/8/2023    | 280            | Yes         | 90          | 0.9196         | 1.066            | 14.44       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 346.6             | n/a               | 2/8/2023    | 400            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-12     | 346.6             | n/a               | 2/7/2023    | 190            | No          | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 346.6             | n/a               | 2/8/2023    | 440            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 346.6             | n/a               | 2/7/2023    | 410            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 346.6             | n/a               | 2/8/2023    | 370            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 346.6             | n/a               | 2/8/2023    | 480            | Yes         | 90          | 181.2          | 89.53            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

Sanitas™ v.9.6.36 . UG  
Hollow symbols indicate censored values.

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

### Prediction Limit Interwell Non-parametric

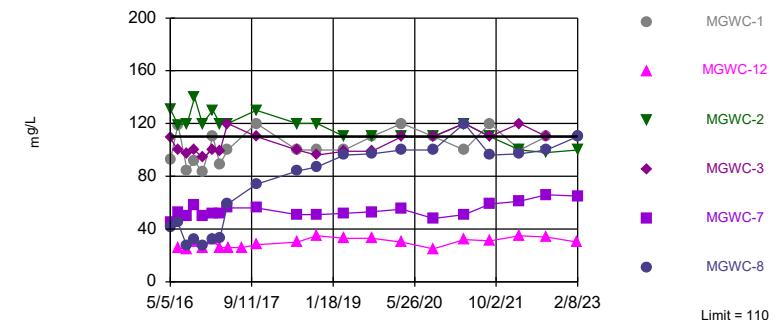


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 90 background values. 60% NDs. Annual per-constituent alpha = 0.002845. Individual comparison alpha = 0.0002374 (1 of 2). Comparing 6 points to limit.

Sanitas™ v.9.6.36 . UG

Within Limit

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 90 background values. Annual per-constituent alpha = 0.002845. Individual comparison alpha = 0.0002374 (1 of 2). Comparing 6 points to limit.

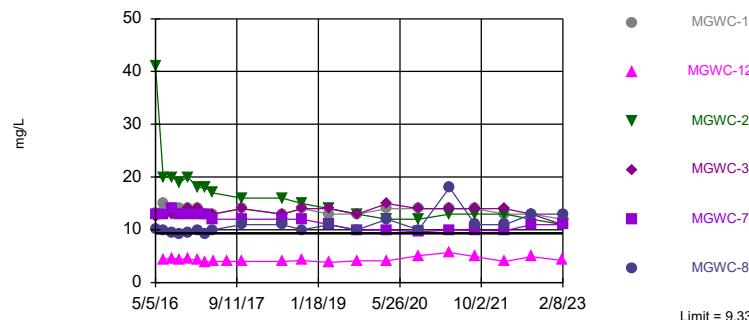
Constituent: Boron Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Constituent: Calcium Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.36 . UG

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

### Prediction Limit Interwell Parametric



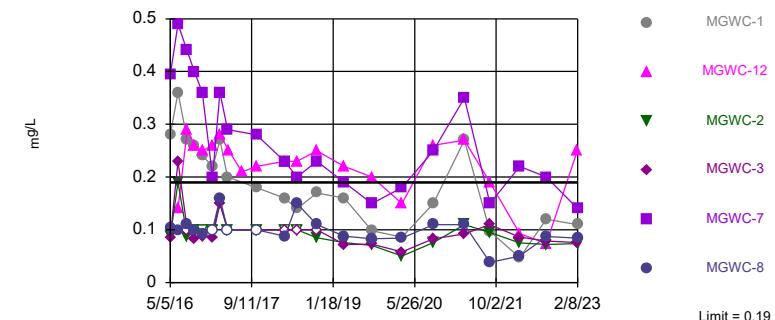
Background Data Summary (based on square root transformation): Mean=2.338, Std. Dev.=0.3884, n=90. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9724, critical = 0.961. Kappa = 1.847 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Chloride Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.36 . UG  
Hollow symbols indicate censored values.

Exceeds Limit: MGWC-12

### Prediction Limit Interwell Non-parametric



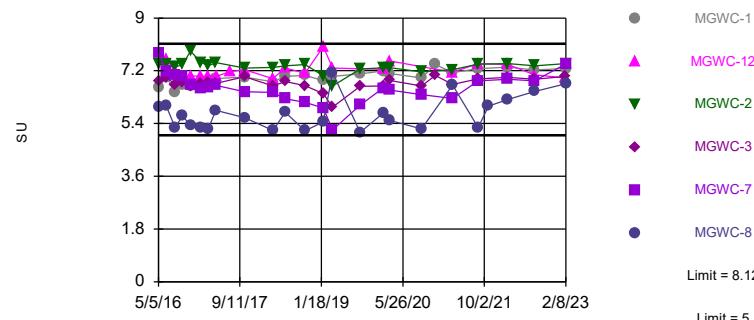
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 94 background values. 29.79% NDs. Annual per-constituent alpha = 0.002633. Individual comparison alpha = 0.0002197 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Within Limits

## Prediction Limit

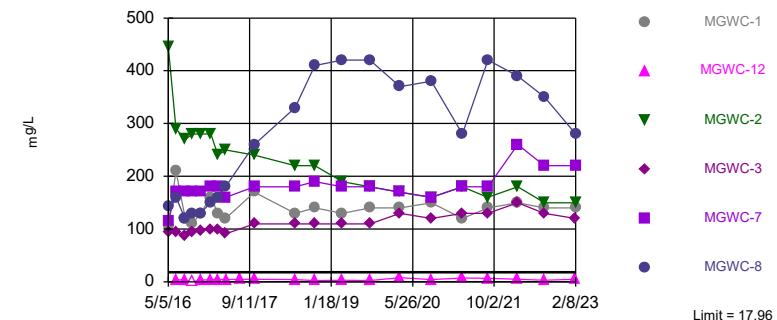
Interwell Non-parametric



Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

## Prediction Limit

Interwell Parametric



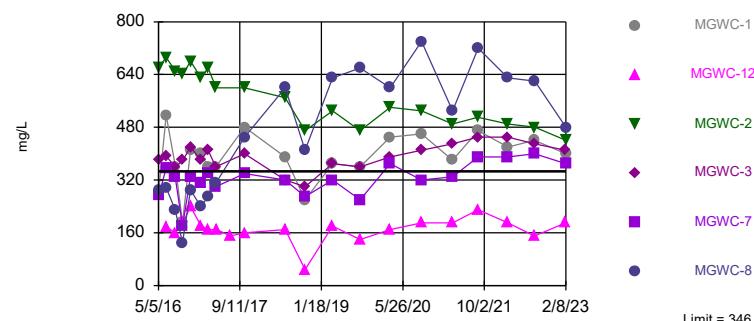
Constituent: pH Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Constituent: Sulfate Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

## Prediction Limit

Interwell Parametric



Constituent: TDS Analysis Run 3/7/2023 4:00 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-1 | MGWC-2 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | <0.08        | 0.976  | 0.157       | 0.855  | <0.08       |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 0.926  | 0.567  | 3.78   |              |
| 6/20/2016  | 0.011 (J)    |        |             |        | 0.013 (J)   |        |        |        | 0.017 (J)    |
| 6/21/2016  |              | 0.862  | 0.124       | 1.15   |             | 0.792  | 1.55   | 3.1    |              |
| 8/15/2016  | 0.022 (J)    | 0.8    | 0.18        | 1.3    | 0.023 (J)   |        |        |        | 0.032 (J)    |
| 8/16/2016  |              |        |             |        |             | 1      | 0.85   | 2.8    |              |
| 9/28/2016  | 0.023 (J)    | 0.8    | 0.17        | 1.3    | <0.08       |        | 0.7    |        | 0.021 (J)    |
| 9/29/2016  |              |        |             |        |             | 1      |        | 3.1    |              |
| 11/16/2016 | <0.08        | 0.98   | 0.17        | 1.3    | <0.08       | 1.2    | 0.88   | 3.9    | <0.08        |
| 1/16/2017  | 0.021 (J)    |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 1.6    | 0.17        | 1.3    | <0.08       | 1.3    |        |        | <0.08        |
| 1/18/2017  |              |        |             |        |             |        |        | 3.7    |              |
| 1/19/2017  |              |        |             |        |             |        | 1.5    |        |              |
| 3/2/2017   | <0.08        | 1.8    | 0.14        | 1.3    | <0.08       | 1.3    | 0.89   | 3.3    | <0.08        |
| 4/18/2017  | <0.08        | 2.4    | 0.14        | 1.5    | <0.08       | 1.8    | 1.1    |        | <0.08        |
| 4/19/2017  |              |        |             |        |             |        |        | 3.7    |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | <0.08        |
| 10/10/2017 | 0.021 (J)    | 4.2    | 0.12        | 1.4    | <0.08       | 1.7    | 1.9    | 3.4    | 0.025 (J)    |
| 6/12/2018  | <0.08        |        |             |        | <0.08       |        |        |        | <0.08        |
| 6/13/2018  |              | 4.9    | 0.11        | 1.4    |             | 1.6    | 1.2    | 3      |              |
| 10/9/2018  | <0.08        |        |             |        | <0.08       |        |        |        | <0.08        |
| 10/10/2018 |              | 5.1    | 0.096 (J)   | 1.4    |             | 1.6    | 1.2    | 3      |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | <0.08        |        |             |        | <0.08       |        |        |        | <0.08        |
| 3/26/2019  |              | 5.1    | 0.079 (J)   | 1.5    |             | 1.5    | 1.3    | 2.6    |              |
| 9/10/2019  | <0.08        | 4.8    | 0.097       | 1.5    | <0.08       | 1.5    | 1.5    | 2.4    | <0.08        |
| 3/9/2020   | 0.045 (J)    |        |             |        |             |        |        |        | <0.08        |
| 3/10/2020  |              | 4      | 0.051 (J)   | 1.4    | <0.08       | 1.3    | 1.9    | 2.3    |              |
| 9/16/2020  | <0.08        |        | 0.041 (J)   |        | <0.08       |        |        | 2.1    | 0.045 (J)    |
| 9/17/2020  |              | 4.4    |             | 1.4    |             | 1.2    | 1.8    |        |              |
| 3/23/2021  | <0.08        |        | <0.08       |        |             |        |        |        | 0.047 (J)    |
| 3/24/2021  |              | 3.6    |             | 1.5    | <0.08       | 1.2    | 0.57   | 2.4    |              |
| 8/23/2021  | <0.08        |        |             |        | <0.08       | 0.97   |        |        | 0.043 (J)    |
| 8/24/2021  |              |        | <0.08       |        | <0.08       |        |        | 2.2    |              |
| 8/25/2021  |              | 4.2    |             | 1.6    |             |        | 1.7    |        |              |
| 2/22/2022  | <0.08        |        | <0.08       |        | <0.08       |        | 1.7    |        | <0.08        |
| 2/23/2022  |              | 4.1    |             | 2.1    |             | 0.83   |        | 2      |              |
| 8/2/2022   | <0.08        |        | <0.08       |        | <0.08       |        |        |        | <0.08        |
| 8/3/2022   |              |        |             | 2.3    |             | 0.76   | 1.7    |        |              |
| 8/4/2022   |              | 4.3    |             |        |             |        |        | 1.9    |              |
| 2/7/2023   | <0.08        |        | 0.028 (J)   |        | 0.022 (J)   | 0.63   |        |        | 0.028 (J)    |
| 2/8/2023   |              | 3.9    |             | 2.1    |             |        | 1.5    | 1.8    |              |

# Prediction Limit

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Constituent: Boron (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg)        |
|------------|---------------------|
| 5/5/2016   |                     |
| 5/6/2016   |                     |
| 6/20/2016  |                     |
| 6/21/2016  | 0.0201 (J)          |
| 8/15/2016  |                     |
| 8/16/2016  | 0.055               |
| 9/28/2016  |                     |
| 9/29/2016  | <0.08               |
| 11/16/2016 | 0.055               |
| 1/16/2017  |                     |
| 1/17/2017  |                     |
| 1/18/2017  | 0.097               |
| 1/19/2017  |                     |
| 3/2/2017   | 0.064               |
| 4/18/2017  |                     |
| 4/19/2017  |                     |
| 4/25/2017  | <0.08               |
| 7/13/2017  | <0.08               |
| 10/10/2017 | <0.08               |
| 6/12/2018  | <0.08               |
| 6/13/2018  |                     |
| 10/9/2018  |                     |
| 10/10/2018 | 0.034 (J)           |
| 1/29/2019  | <0.08               |
| 3/25/2019  | <0.08               |
| 3/26/2019  | 0.032 (J)           |
| 9/10/2019  | 0.06 (J) 0.04 (J)   |
| 3/9/2020   |                     |
| 3/10/2020  | <0.08 <0.08         |
| 9/16/2020  | <0.08 0.04 (J)      |
| 9/17/2020  |                     |
| 3/23/2021  | <0.08               |
| 3/24/2021  | <0.08               |
| 8/23/2021  |                     |
| 8/24/2021  | <0.08               |
| 8/25/2021  | 0.11                |
| 2/22/2022  | <0.08 <0.08         |
| 2/23/2022  |                     |
| 8/2/2022   | 0.071 (J) <0.08     |
| 8/3/2022   |                     |
| 8/4/2022   |                     |
| 2/7/2023   | 0.067 (J) 0.039 (J) |
| 2/8/2023   |                     |

## Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-1 | MGWC-2 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 8.83         | 41.2   | 105         | 45     | 27          |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 109    | 92.5   | 131    |              |
| 6/20/2016  | 8.1          |        |             |        | 29.4        |        |        |        | 35.5         |
| 6/21/2016  |              | 44.7   | 91.2        | 52.8   |             | 99.7   | 119    | 119    |              |
| 8/15/2016  | 6.1          | 27     | 94          | 50     | 26          |        |        |        | 34           |
| 8/16/2016  |              |        |             |        |             | 97     | 84     | 120    |              |
| 9/28/2016  | 7.2          | 32     | 110         | 58     | 31          |        |        |        | 38           |
| 9/29/2016  |              |        |             |        |             | 100    |        |        | 140          |
| 11/16/2016 | 5.2          | 27     | 98          | 50     | 26          | 94     | 83     | 120    | 33           |
| 1/16/2017  | 3.8          |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 32     | 100         | 52     | 29          | 100    |        |        | 34           |
| 1/18/2017  |              |        |             |        |             |        |        | 130    |              |
| 1/19/2017  |              |        |             |        |             |        | 110    |        |              |
| 3/2/2017   | 5.4          | 33     | 100         | 52     | 28          | 99     | 89     | 120    | 35           |
| 4/18/2017  | 5            | 59     | 110         | 56     | 27          | 120    | 100    |        | 33           |
| 4/19/2017  |              |        |             |        |             |        |        | 120    |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 30           |
| 10/10/2017 | 4.8          | 74     | 110         | 56     | 31          | 110    | 120    | 130    | 39           |
| 6/12/2018  | 4.8          |        |             |        | 25          |        |        |        | 26           |
| 6/13/2018  |              | 84     | 100         | 51     |             | 100    | 100    | 120    |              |
| 10/9/2018  | 4.5          |        |             |        | 29          |        |        |        | 29           |
| 10/10/2018 |              | 87     | 100         | 51     |             | 96     | 100    | 120    |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | 4.6          |        |             |        | 27          |        |        |        | 37           |
| 3/26/2019  |              | 96     | 100         | 52     |             | 99     | 100    | 110    |              |
| 9/10/2019  | 4.9          | 97     | 110         | 53     | 27          | 99     | 110    | 110    | 36           |
| 3/9/2020   | 4            |        |             |        |             |        |        |        | 32           |
| 3/10/2020  |              | 100    | 100         | 55     | 29          | 110    | 120    | 110    |              |
| 9/16/2020  | 6.8          |        | 100         |        | 28          |        |        |        | 110          |
| 9/17/2020  |              | 100    |             | 48     |             | 110    | 110    |        | 30           |
| 3/23/2021  | 4            |        | 110         |        |             |        |        |        | 42           |
| 3/24/2021  |              | 120    |             | 51     | 28          | 120    | 100    | 120    |              |
| 8/23/2021  | 5.8          |        | 100         |        | 27          | 110    |        |        | 34           |
| 8/24/2021  |              |        |             | 59     |             |        |        | 110    |              |
| 8/25/2021  |              | 96     |             |        |             |        | 120    |        |              |
| 2/22/2022  | 3.3          |        | 97          |        | 25          |        | 100    |        | 36           |
| 2/23/2022  |              | 97     |             | 61     |             | 120    |        | 100    |              |
| 8/2/2022   | 3.1          |        | 110         |        | 26          |        |        |        | 36           |
| 8/3/2022   |              |        |             | 66     |             | 110    | 110    |        |              |
| 8/4/2022   |              | 100    |             |        |             |        |        | 98     |              |
| 2/7/2023   | 3.6          |        | 110         |        | 26          | 110    |        |        | 34           |
| 2/8/2023   |              | 110    |             | 65     |             |        | 110    | 100    |              |

# Prediction Limit

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Constituent: Calcium (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 25.5         |
| 8/15/2016  |              |
| 8/16/2016  | 25           |
| 9/28/2016  |              |
| 9/29/2016  | 30           |
| 11/16/2016 | 26           |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 32           |
| 1/19/2017  |              |
| 3/2/2017   | 26           |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 26           |
| 7/13/2017  | 26           |
| 10/10/2017 | 28           |
| 6/12/2018  | 30           |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 35           |
| 1/29/2019  | 95.1         |
| 3/25/2019  | 89           |
| 3/26/2019  | 33           |
| 9/10/2019  | 33           |
| 3/9/2020   | 86           |
| 3/10/2020  | 30           |
| 9/16/2020  | 90           |
| 9/17/2020  | 25           |
| 3/23/2021  | 93           |
| 3/24/2021  | 97           |
| 8/23/2021  |              |
| 8/24/2021  |              |
| 8/25/2021  | 83           |
| 2/22/2022  | 31           |
| 2/23/2022  | 35           |
| 8/2/2022   | 90           |
| 8/3/2022   | 34           |
| 8/4/2022   | 94           |
| 2/7/2023   | 30           |
| 2/8/2023   | 99           |

## Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-1 | MGWC-2 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 7.35         | 10.1   | 9.67        | 13     | 6.51        |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 12.5   | 13.2   | 41     |              |
| 6/20/2016  | 7            |        |             |        | 5.9         |        |        |        | 4.3          |
| 6/21/2016  |              | 10     | 9.2         | 13     |             | 13     | 15     | 20     |              |
| 8/15/2016  | 7.5          | 9.5    | 10          | 14     | 6.4         |        | 13     | 14     | 4.1          |
| 8/16/2016  |              |        |             |        |             |        | 14     | 20     |              |
| 9/28/2016  | 7            | 9.2    | 10          | 13     | 6.1         |        |        |        | 3.9          |
| 9/29/2016  |              |        |             |        |             | 13     |        |        | 19           |
| 11/16/2016 | 7.5          | 9.5    | 10          | 13     | 6.1         | 14     | 14     | 20     | 4.1          |
| 1/16/2017  | 7.7          |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 10     | 9.4         | 13     | 5.7         | 14     |        |        | 3.9          |
| 1/18/2017  |              |        |             |        |             |        |        | 18     |              |
| 1/19/2017  |              |        |             |        |             |        | 14     |        |              |
| 3/2/2017   | 6.9          | 9.3    | 8.6         | 13     | 5.3         | 13     | 13     | 18     | 3.5          |
| 4/18/2017  | 6.8          | 10     | 8.9         | 12     | 5.3         | 13     | 13     |        | 3.7          |
| 4/19/2017  |              |        |             |        |             |        |        | 17     |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 4.2          |
| 10/10/2017 | 6.9          | 11     | 8.3         | 12     | 5.3         | 14     | 14     | 16     | 3.4          |
| 6/12/2018  | 6.7          |        |             |        | 5.1         |        |        |        | 4.6          |
| 6/13/2018  |              | 11     | 7           | 12     |             | 13     | 13     | 16     |              |
| 10/9/2018  | 7.1          |        |             |        | 5.6         |        |        |        | 4.5          |
| 10/10/2018 |              | 10     | 6.9         | 12     |             | 14     | 14     | 15     |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | 6.8          |        |             |        | 4.7         |        |        |        | 3.4          |
| 3/26/2019  |              | 11     | 5.8         | 11     |             | 14     | 13     | 14     |              |
| 9/10/2019  | 7            | 10     | 6           | 9.9    | 5.1         | 13     | 13     | 13     | 3.5          |
| 3/9/2020   | 7.4          |        |             |        |             |        |        |        | 4.5          |
| 3/10/2020  |              | 12     | 5.1         | 10     | 5.4         | 15     | 14     | 12     |              |
| 9/16/2020  | 7            |        | 4.3         |        | 5.2         |        |        | 12     | 4.6          |
| 9/17/2020  |              | 10     |             | 9.6    |             | 14     | 14     |        |              |
| 3/23/2021  | 7.8          |        | 4           |        |             |        |        |        | 3.8          |
| 3/24/2021  |              | 18     |             | 10     | 5.5         | 14     | 14     | 13     |              |
| 8/23/2021  | 7.3          |        |             |        |             |        |        |        | 4.4          |
| 8/24/2021  |              |        | 4           |        | 5.5         | 14     |        | 13     |              |
| 8/25/2021  |              | 11     |             | 9.9    |             |        |        | 14     |              |
| 2/22/2022  | 7.1          |        | 4           |        | 5.1         |        | 13     |        | 3.1          |
| 2/23/2022  |              | 11     |             | 9.8    |             | 14     |        | 13     |              |
| 8/2/2022   | 7.4          |        | 2.6         |        | 3.5         |        |        |        | 3.4          |
| 8/3/2022   |              |        |             | 11     |             | 13     | 13     |        |              |
| 8/4/2022   |              | 13     |             |        |             |        |        | 12     |              |
| 2/7/2023   | 7            |        | 3.1         |        | 4.7         | 11     |        |        | 4.2          |
| 2/8/2023   |              | 13     |             | 11     |             |        | 12     | 11     |              |

# Prediction Limit

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Constituent: Chloride (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 4.4          |
| 8/15/2016  |              |
| 8/16/2016  | 4.6          |
| 9/28/2016  |              |
| 9/29/2016  | 4.4          |
| 11/16/2016 | 4.5          |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 4.2          |
| 1/19/2017  |              |
| 3/2/2017   | 3.9          |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 4            |
| 7/13/2017  | 4            |
| 10/10/2017 | 4            |
| 6/12/2018  | 4            |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 4.2          |
| 1/29/2019  | 4.51         |
| 3/25/2019  | 4.4          |
| 3/26/2019  | 3.8          |
| 9/10/2019  | 4.1          |
| 3/9/2020   | 4.2          |
| 3/10/2020  | 4.1          |
| 9/16/2020  | 4            |
| 9/17/2020  | 5.1          |
| 3/23/2021  | 3.7          |
| 3/24/2021  |              |
| 8/23/2021  |              |
| 8/24/2021  | 4.1          |
| 8/25/2021  | 5.7          |
| 2/22/2022  |              |
| 2/23/2022  |              |
| 8/2/2022   | 3.9          |
| 8/3/2022   |              |
| 8/4/2022   |              |
| 2/7/2023   | 4.9          |
| 2/8/2023   | 2.8          |
|            |              |
|            |              |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-6 (bg) | MGWC-8    | MGWA-5 (bg) | MGWC-7   | MGWC-1    | MGWC-3    | MGWC-2    | MGWA-11 (bg) |
|------------|--------------|-------------|-----------|-------------|----------|-----------|-----------|-----------|--------------|
| 5/5/2016   | 0.046 (J)    | 0.091 (J)   | 0.103 (J) | 0.132 (J)   | 0.394    |           |           |           |              |
| 5/6/2016   |              |             |           |             |          | 0.28 (J)  | 0.086 (J) | 0.088 (J) |              |
| 6/20/2016  | <0.1         |             |           | 0.05 (J)    |          |           |           |           | 0.06 (J)     |
| 6/21/2016  |              | 0.08 (J)    | 0.1 (J)   |             | 0.49     | 0.36      | 0.23 (J)  | 0.19 (J)  |              |
| 8/15/2016  | <0.1         | <0.1        | 0.11 (J)  | 0.1 (J)     | 0.44     |           |           |           | 0.1 (J)      |
| 8/16/2016  |              |             |           |             |          | 0.27      | <0.1      | 0.087 (J) |              |
| 9/28/2016  | <0.1         | 0.084 (J)   | 0.1 (J)   | 0.11 (J)    | 0.4      | 0.26      |           |           | 0.097 (J)    |
| 9/29/2016  |              |             |           |             |          |           | 0.082 (J) | <0.1      |              |
| 11/16/2016 | <0.1         | 0.084 (J)   | 0.091 (J) | 0.093 (J)   | 0.36     | 0.24      | 0.087 (J) | <0.1      | 0.12 (J)     |
| 1/16/2017  | <0.1         |             |           |             |          |           |           |           |              |
| 1/17/2017  |              | 0.099 (J)   | <0.1      | 0.095 (J)   | 0.2      |           | 0.086 (J) |           | 0.11 (J)     |
| 1/18/2017  |              |             |           |             |          |           |           | <0.1      |              |
| 1/19/2017  |              |             |           |             | 0.22     |           |           |           |              |
| 3/2/2017   | 0.12 (J)     | 0.15 (J)    | 0.16 (J)  | 0.16 (J)    | 0.36     | 0.27      | 0.15 (J)  | 0.15 (J)  | 0.18 (J)     |
| 4/18/2017  | <0.1         | <0.1        | <0.1      | <0.1        | 0.29     | 0.2       | <0.1      |           | 0.11 (J)     |
| 4/19/2017  |              |             |           |             |          |           |           | <0.1      |              |
| 4/25/2017  |              |             |           |             |          |           |           |           |              |
| 7/13/2017  |              |             |           |             |          |           |           |           | 0.12 (J)     |
| 10/10/2017 | <0.1         | <0.1        | <0.1      | <0.1        | 0.28     | 0.18 (J)  | <0.1      | <0.1      | 0.086 (J)    |
| 3/29/2018  | <0.1         | <0.1        |           | 0.084 (J)   | 0.23     | 0.16 (J)  |           |           | <0.1         |
| 3/30/2018  |              |             | 0.088 (J) |             |          |           | <0.1      | <0.1      |              |
| 6/12/2018  | <0.1         |             |           | <0.1        |          |           |           |           | 0.16 (J)     |
| 6/13/2018  |              | <0.1        | 0.15 (J)  |             | 0.2      | 0.14 (J)  | <0.1      | <0.1      |              |
| 10/9/2018  | <0.1         |             |           | 0.086 (J)   |          |           |           |           | 0.16 (J)     |
| 10/10/2018 |              | <0.1        | 0.11 (J)  |             | 0.23     | 0.17 (J)  | <0.1      | 0.085 (J) |              |
| 1/29/2019  |              |             |           |             |          |           |           |           |              |
| 3/25/2019  | <0.1         |             |           | 0.072 (J)   |          |           |           |           | 0.087 (J)    |
| 3/26/2019  |              | 0.065 (J)   | 0.088 (J) |             | 0.19 (J) | 0.16      | 0.072 (J) | 0.076 (J) |              |
| 9/10/2019  | 0.044 (J)    | 0.076 (J)   | 0.083 (J) | 0.068 (J)   | 0.15     | 0.098 (J) | 0.073 (J) | 0.07 (J)  | 0.075 (J)    |
| 3/9/2020   | 0.061 (J)    |             |           |             |          |           |           |           | 0.19         |
| 3/10/2020  |              | 0.045 (J)   | 0.084 (J) | 0.055 (J)   | 0.18     | 0.086 (J) | 0.058 (J) | 0.05 (J)  |              |
| 9/16/2020  | 0.042 (J)    | 0.076 (J)   |           | 0.08 (J)    |          |           |           | 0.076 (J) | 0.18         |
| 9/17/2020  |              |             | 0.11      |             | 0.25     | 0.15      | 0.083 (J) |           |              |
| 3/23/2021  | 0.038 (J)    | 0.082 (J)   |           |             |          |           |           |           | 0.081 (J)    |
| 3/24/2021  |              |             | 0.11      | 0.091 (J)   | 0.35     | 0.27      | 0.092 (J) | 0.11      |              |
| 8/23/2021  | 0.048 (J)    |             |           |             |          |           |           |           | 0.12         |
| 8/24/2021  |              | 0.1         |           | 0.1         |          |           | 0.11      | 0.095 (J) |              |
| 8/25/2021  |              |             | 0.038 (J) |             | 0.15     | 0.097 (J) |           |           |              |
| 2/22/2022  | <0.1         | 0.034 (J)   |           | <0.1        |          | 0.047 (J) |           |           | <0.1         |
| 2/23/2022  |              |             | 0.05 (J)  |             | 0.22     |           | 0.086 (J) | 0.075 (J) |              |
| 8/2/2022   | <0.1         | 0.055 (J)   |           | 0.066 (J)   |          |           |           |           | 0.065 (J)    |
| 8/3/2022   |              |             |           |             | 0.2      | 0.12      | 0.079 (J) |           |              |
| 8/4/2022   |              |             | 0.087 (J) |             |          |           |           | 0.072 (J) |              |
| 2/7/2023   | <0.1         | 0.06 (J)    |           | 0.069 (J)   |          |           | 0.076 (J) |           | 0.07 (J)     |
| 2/8/2023   |              |             | 0.084 (J) |             | 0.14     | 0.11      |           | 0.074 (J) |              |

# Prediction Limit

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Constituent: Fluoride (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 0.14 (J)     |
| 8/15/2016  |              |
| 8/16/2016  | 0.29         |
| 9/28/2016  |              |
| 9/29/2016  | 0.26         |
| 11/16/2016 | 0.25         |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 0.26         |
| 1/19/2017  |              |
| 3/2/2017   | 0.28         |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 0.25         |
| 7/13/2017  | 0.21         |
| 10/10/2017 | 0.22         |
| 3/29/2018  | 0.23         |
| 3/30/2018  |              |
| 6/12/2018  | 0.23         |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 0.25         |
| 1/29/2019  | <0.1         |
| 3/25/2019  | 0.067 (J)    |
| 3/26/2019  | 0.22         |
| 9/10/2019  | 0.2          |
| 3/9/2020   |              |
| 3/10/2020  | 0.15         |
| 9/16/2020  | 0.26         |
| 9/17/2020  |              |
| 3/23/2021  | 0.096 (J)    |
| 3/24/2021  | 0.27         |
| 8/23/2021  |              |
| 8/24/2021  | 0.11         |
| 8/25/2021  | 0.19         |
| 2/22/2022  | 0.093 (J)    |
| 2/23/2022  | <0.1         |
| 8/2/2022   | 0.074 (J)    |
| 8/3/2022   |              |
| 8/4/2022   |              |
| 2/7/2023   | 0.25         |
| 2/8/2023   | 0.064 (J)    |

# Prediction Limit

Constituent: pH (SU) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8   | MGWC-7   | MGWA-5 (bg) | MGWA-6 (bg) | MGWC-2   | MGWC-1   | MGWC-3   | MGWA-11 (bg) |
|------------|--------------|----------|----------|-------------|-------------|----------|----------|----------|--------------|
| 5/5/2016   | 5.94         | 5.96     | 7.81     | 7.4         | 7.13        |          |          |          |              |
| 5/6/2016   |              |          |          |             |             | 7.41     | 6.64     | 6.85     |              |
| 6/20/2016  | 5.84 (D)     |          |          | 7.63        |             |          |          |          | 7.82         |
| 6/21/2016  |              | 6        | 7.2      |             | 7.25        | 7.41     | 6.99     | 6.98     |              |
| 8/15/2016  | 5.65         | 5.26     | 7.04     | 7.54        | 7.04        |          |          |          | 7.52         |
| 8/16/2016  |              |          |          |             |             | 7.33     | 6.48     | 6.73     |              |
| 9/28/2016  | 5.72         | 5.66     | 7        | 7.45        | 7.09        |          |          |          | 7.66         |
| 9/29/2016  |              |          |          |             |             | 7.42     |          | 6.81     |              |
| 11/16/2016 | 5.65         | 5.33     | 6.73     | 7.39        | 7.6         | 7.87     | 6.66     | 6.69     | 7.51         |
| 1/16/2017  | 5.52         |          |          |             |             |          |          |          |              |
| 1/17/2017  |              | 5.24     | 6.61     | 7.23        | 6.99        |          |          | 6.77     | 7.52         |
| 1/18/2017  |              |          |          |             |             | 7.49     |          |          |              |
| 1/19/2017  |              |          |          |             |             |          | 6.81     |          |              |
| 3/2/2017   | 5.53         | 5.21     | 6.62     | 7.55        | 6.95        | 7.37     | 6.75     | 6.79     | 7.5          |
| 4/18/2017  | 5.64         | 5.85     | 6.7      | 7.43        | 7.02        |          |          | 6.93     | 6.77         |
| 4/19/2017  |              |          |          |             |             | 7.48     |          |          |              |
| 4/25/2017  |              |          |          |             |             |          |          |          |              |
| 7/13/2017  |              |          |          |             |             |          |          |          | 7.72         |
| 10/10/2017 |              | 5.6      | 6.48     | 5.62        | 7.27        | 7.29     | 6.99     | 7        |              |
| 10/11/2017 | 6.11         |          |          |             |             |          |          |          | 6.35         |
| 3/29/2018  | 5.35         |          | 6.46     | 7.19        | 6.95        |          |          | 6.82     | 7.42         |
| 3/30/2018  |              | 5.16     |          |             |             | 7.31     |          | 6.68     |              |
| 6/12/2018  | 6.23         |          |          | 7.55        |             |          |          |          | 8.02         |
| 6/13/2018  |              | 5.79     | 6.24     |             | 7.08        | 7.37     | 7.01     | 6.83     |              |
| 10/9/2018  | 5.62 (D)     |          |          | 7.8 (D)     |             |          |          |          | 7.79 (D)     |
| 10/10/2018 |              | 5.15 (D) | 6.12 (D) |             | 7.01 (D)    | 7.41 (D) | 7.04 (D) | 6.69 (D) |              |
| 1/28/2019  | 5.49 (D)     |          |          |             |             |          |          |          | 7.4 (D)      |
| 1/29/2019  |              | 5.46 (D) | 5.93 (D) | 7.63 (D)    | 6.55 (D)    | 7.03 (D) | 6.87 (D) | 6.42 (D) |              |
| 3/25/2019  | 5.27 (D)     |          |          | 7.44 (D)    |             |          |          |          | 7.29 (D)     |
| 3/26/2019  |              | 7.14 (D) | 5.19 (D) |             | 6.57 (D)    | 6.68 (D) | 7.01 (D) | 5.96 (D) |              |
| 9/10/2019  | 5.97         | 5.1      | 6.03     | 7.41        | 6.99        | 7.26     | 7.09     | 6.67     | 7.54         |
| 1/28/2020  | 5.78         |          | 6.61     | 7.46        | 7.17        |          |          |          | 7.4          |
| 1/29/2020  |              | 5.76     |          |             |             | 7.3      | 7.19     | 6.68     |              |
| 3/9/2020   | 5.46         |          |          |             |             |          |          |          | 7.58         |
| 3/10/2020  |              | 5.5      | 6.54     | 7.3         | 7           | 7.3      | 7.11     | 6.87     |              |
| 9/16/2020  | 6.37         |          |          | 7.38        | 6.98        | 7.16     |          |          | 7.89         |
| 9/17/2020  |              | 5.22     | 6.39     |             |             |          |          | 6.95     | 6.68         |
| 12/7/2020  |              |          |          |             | 7.2         |          |          |          |              |
| 12/8/2020  |              |          |          |             |             |          | 7.41     | 7.04     |              |
| 3/23/2021  | 5            |          |          |             | 6.74        |          |          |          | 7.06         |
| 3/24/2021  |              | 6.71     | 6.26     | 6.88        |             | 7.24     | 7.14     | 6.73     |              |
| 8/23/2021  | 6.16         |          |          |             |             |          |          |          | 8.12         |
| 8/24/2021  |              |          |          | 7.78        | 7.11        | 7.42     |          | 6.92     |              |
| 8/25/2021  |              | 5.26     | 6.85     |             |             |          | 7.27     |          |              |
| 10/26/2021 |              | 5.99     |          |             |             |          |          |          |              |
| 2/22/2022  | 5.38         |          |          | 7.57        | 7.14        |          | 7.32     |          | 7.6          |
| 2/23/2022  |              | 6.22     | 6.91     |             |             | 7.44     |          | 6.98     |              |
| 8/2/2022   | 5.41         |          |          | 7.45        | 7.1         |          |          |          | 7.57         |
| 8/3/2022   |              |          | 6.86     |             |             |          | 7.23     | 6.91     |              |
| 8/4/2022   |              | 6.5      |          |             |             | 7.37     |          |          |              |
| 2/7/2023   | 5.46         |          |          | 7.85        | 7.13        |          |          | 7.01     | 7.72         |
| 2/8/2023   |              | 6.76     | 7.43     |             |             | 7.44     | 7.28     |          |              |

# Prediction Limit

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Constituent: pH (SU) Analysis Run 3/7/2023 4:02 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg)      |
|------------|-------------------|
| 5/5/2016   |                   |
| 5/6/2016   |                   |
| 6/20/2016  |                   |
| 6/21/2016  | 7.61              |
| 8/15/2016  |                   |
| 8/16/2016  | 7.17              |
| 9/28/2016  |                   |
| 9/29/2016  | 6.97              |
| 11/16/2016 | 7.03              |
| 1/16/2017  |                   |
| 1/17/2017  |                   |
| 1/18/2017  | 7.01              |
| 1/19/2017  |                   |
| 3/2/2017   | 7.02              |
| 4/18/2017  |                   |
| 4/19/2017  |                   |
| 4/25/2017  | 7.02              |
| 7/13/2017  | 7.17              |
| 10/10/2017 | 7.24              |
| 10/11/2017 |                   |
| 3/29/2018  | 6.93              |
| 3/30/2018  |                   |
| 6/12/2018  | 7.29              |
| 6/13/2018  |                   |
| 10/9/2018  |                   |
| 10/10/2018 | 7.12 (D)          |
| 1/28/2019  |                   |
| 1/29/2019  | 8.02 (D) 6.93 (D) |
| 3/25/2019  | 7.1 (D)           |
| 3/26/2019  | 7.29 (D)          |
| 9/10/2019  | 10.96 (o) 7.15    |
| 1/28/2020  | 7.25 7.36         |
| 1/29/2020  |                   |
| 3/9/2020   |                   |
| 3/10/2020  | 7.53 7.04         |
| 9/16/2020  | 11.03 (o) 6.89    |
| 9/17/2020  |                   |
| 12/7/2020  |                   |
| 12/8/2020  |                   |
| 3/23/2021  | 6.56              |
| 3/24/2021  | 7.15              |
| 8/23/2021  |                   |
| 8/24/2021  | 7.28              |
| 8/25/2021  | 7.44              |
| 10/26/2021 |                   |
| 2/22/2022  | 7.41 7.2          |
| 2/23/2022  |                   |
| 8/2/2022   | 7.06 7.27         |
| 8/3/2022   |                   |
| 8/4/2022   |                   |
| 2/7/2023   | 6.95 7.24         |
| 2/8/2023   |                   |

## Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-1 | MGWC-2 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 2.46         | 144    | 17.8        | 116    | 4.47        |        |        |        |              |
| 5/6/2016   |              |        |             |        | 7.7         | 94.2   | 106    | 445    |              |
| 6/20/2016  | 2.5          |        |             |        |             |        |        |        | 1            |
| 6/21/2016  |              | 160    | 17          | 170    |             | 95     | 210    | 290    |              |
| 8/15/2016  | 1.9          | 120    | 20          | 170    | 7.5         |        |        |        | 0.73 (J)     |
| 8/16/2016  |              |        |             |        |             | 88     | 120    | 270    |              |
| 9/28/2016  | 1.9          | 130    | 21          | 170    | 7.8         |        |        |        | <1           |
| 9/29/2016  |              |        |             |        |             | 94     |        | 280    |              |
| 11/16/2016 | 1.7          | 130    | 20          | 170    | 6.7         | 97     | 130    | 280    | <1           |
| 1/16/2017  | <1           |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 150    | 19          | 180    | 6.7         | 100    |        |        | <1           |
| 1/18/2017  |              |        |             |        |             |        |        | 280    |              |
| 1/19/2017  |              |        |             |        |             |        | 160    |        |              |
| 3/2/2017   | 1.4          | 160    | 15          | 180    | 5.6         | 100    | 130    | 240    | <1           |
| 4/18/2017  | 1.3          | 180    | 14          | 160    | 5.1         | 91     | 120    |        | <1           |
| 4/19/2017  |              |        |             |        |             |        |        | 250    |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 1.4          |
| 10/10/2017 | 1.1          | 260    | 11          | 180    | 4.9         | 110    | 170    | 240    | 0.87 (J)     |
| 6/12/2018  | 0.82 (J)     |        |             |        | 3.8         |        |        |        | 4.1          |
| 6/13/2018  |              | 330    | 8.7         | 180    |             | 110    | 130    | 220    |              |
| 10/9/2018  | 0.82 (J)     |        |             |        | 6.7         |        |        |        | 2.2          |
| 10/10/2018 |              | 410    | 8.7         | 190    |             | 110    | 140    | 220    |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | <1           |        |             |        | 3.4 (J)     |        |        |        | <1           |
| 3/26/2019  |              | 420    | 6.3 (J)     | 180    |             | 110    | 130    | 190    |              |
| 9/10/2019  | 1.1          | 420    | 5.6         | 180    | 4.7         | 110    | 140    | 180    | 1.8          |
| 3/9/2020   | 4.2          |        |             |        |             |        |        |        | 3.4          |
| 3/10/2020  |              | 370    | 5           | 170    | 5.2         | 130    | 140    | 170    |              |
| 9/16/2020  | 0.69 (J)     |        | 2.7         |        | 3.2         |        |        | 160    | 3            |
| 9/17/2020  |              | 380    |             | 160    |             | 120    | 150    |        |              |
| 3/23/2021  | <1           |        | 3.2         |        |             |        |        |        | 1.4          |
| 3/24/2021  |              | 280    |             | 180    | 3.5         | 130    | 120    | 180    |              |
| 8/23/2021  | <1           |        |             |        |             |        |        |        | 3.4          |
| 8/24/2021  |              |        | 3.5         |        | 3.6         | 130    |        | 160    |              |
| 8/25/2021  |              | 420    |             | 180    |             |        | 140    |        |              |
| 2/22/2022  | <1           |        | 5.4         |        | 3.2         |        | 150    |        | 1.1          |
| 2/23/2022  |              | 390    |             | 260    |             | 150    |        | 180    |              |
| 8/2/2022   | <1           |        | 2.3         |        | 2.7         |        |        |        | 0.8 (J)      |
| 8/3/2022   |              |        |             | 220    |             | 130    | 140    |        |              |
| 8/4/2022   |              | 350    |             |        |             |        |        | 150    |              |
| 2/7/2023   | <1           |        | 2.3         |        | 2.5         | 120    |        |        | 3.3          |
| 2/8/2023   |              | 280    |             | 220    |             |        | 140    | 150    |              |

# Prediction Limit

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Constituent: Sulfate (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 4            |
| 8/15/2016  |              |
| 8/16/2016  | 2.8          |
| 9/28/2016  |              |
| 9/29/2016  | <1           |
| 11/16/2016 | 3            |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 4.1          |
| 1/19/2017  |              |
| 3/2/2017   | 4.6          |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 4.4          |
| 7/13/2017  | 4.8          |
| 10/10/2017 | 4.9          |
| 6/12/2018  | 4.1          |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 2.5          |
| 1/29/2019  | 7.08         |
| 3/25/2019  | 1.8 (J)      |
| 3/26/2019  | 2.9 (J)      |
| 9/10/2019  | 2.5          |
| 3/9/2020   | 0.6 (J)      |
| 3/10/2020  | 2.4          |
| 9/16/2020  | 7.8          |
| 9/17/2020  | 4.4          |
| 3/23/2021  | 1            |
| 3/24/2021  | 1.7          |
| 3/24/2021  | 7.1          |
| 8/23/2021  |              |
| 8/24/2021  |              |
| 8/25/2021  | 3.3          |
| 2/22/2022  | 6.6          |
| 2/23/2022  | 4.8          |
| 8/2/2022   | 2.1          |
| 8/3/2022   | 3.1          |
| 8/4/2022   |              |
| 2/7/2023   | 2.1          |
| 2/8/2023   | 4.7          |
|            | 1.6          |

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-1 | MGWC-2 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 78           | 287    | 281         | 272    | 129         |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 380    | 282    | 661    |              |
| 6/20/2016  | 80           |        |             |        | 156         |        |        |        | 188          |
| 6/21/2016  |              | 297    | 303         | 356    |             | 392    | 516    | 692    |              |
| 8/15/2016  | 58           | 230    | 310         | 330    | 160         |        | 360    | 360    | 180          |
| 8/16/2016  |              |        |             |        |             |        |        | 650    |              |
| 9/28/2016  | 29           | 130    | 170         | 180    | 91          |        | 190    |        | 100          |
| 9/29/2016  |              |        |             |        |             | 380    |        | 640    |              |
| 11/16/2016 | 140          | 290    | 340         | 330    | 250         | 420    | 410    | 680    | 270          |
| 1/16/2017  | 36           |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 240    | 310         | 310    | 140         | 380    |        |        | 170          |
| 1/18/2017  |              |        |             |        |             |        |        | 630    |              |
| 1/19/2017  |              |        |             |        |             |        | 400    |        |              |
| 3/2/2017   | 78           | 270    | 330         | 340    | 170         | 410    | 360    | 660    | 210          |
| 4/18/2017  | 16           | 310    | 290         | 300    | 140         | 360    | 360    |        | 160          |
| 4/19/2017  |              |        |             |        |             |        |        | 600    |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 150          |
| 10/10/2017 | 78           | 450    | 310         | 340    | 190         | 400    | 480    | 600    | 210          |
| 6/12/2018  | 62           |        |             |        | 180         |        |        |        | 150          |
| 6/13/2018  |              | 600    | 230         | 320    |             | 320    | 390    | 570    |              |
| 10/9/2018  | 68           |        |             |        | 170         |        |        |        | 150          |
| 10/10/2018 |              | 410    | 300         | 270    |             | 300    | 260    | 470    |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | 54           |        |             |        | 150         |        |        |        | 210          |
| 3/26/2019  |              | 630    | 290         | 320    |             | 370    | 370    | 530    |              |
| 9/10/2019  | 14           | 660    | 260         | 260    | 110         | 360    | 360    | 470    | 160          |
| 3/9/2020   | 56           |        |             |        |             |        |        |        | 190          |
| 3/10/2020  |              | 600    | 300         | 370    | 170         | 390    | 450    | 540    |              |
| 9/16/2020  | 44           |        | 300         |        | 150         |        |        | 530    | 150          |
| 9/17/2020  |              | 740    |             | 320    |             | 410    | 460    |        |              |
| 3/23/2021  | 53           |        | 300         |        |             |        |        |        | 220          |
| 3/24/2021  |              | 530    |             | 330    | 150         | 430    | 380    | 490    |              |
| 8/23/2021  | 55           |        |             | 300    |             | 160    | 450    |        | 200          |
| 8/24/2021  |              |        |             |        | 160         |        |        | 510    |              |
| 8/25/2021  |              | 720    |             | 390    |             |        |        | 470    |              |
| 2/22/2022  | 38           |        | 300         |        | 150         |        | 420    |        | 210          |
| 2/23/2022  |              | 630    |             | 390    |             | 450    |        | 490    |              |
| 8/2/2022   | 65           |        | 200         |        | 270         |        |        |        | 210          |
| 8/3/2022   |              |        |             | 400    |             | 430    | 440    |        |              |
| 8/4/2022   |              | 620    |             |        |             |        |        | 480    |              |
| 2/7/2023   | 61           |        | 290         |        | 150         | 410    |        |        | 190          |
| 2/8/2023   |              | 480    |             | 370    |             |        | 400    | 440    |              |

# Prediction Limit

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Constituent: TDS (mg/L) Analysis Run 3/7/2023 4:02 PM View: Appendix III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 177          |
| 8/15/2016  |              |
| 8/16/2016  | 160          |
| 9/28/2016  |              |
| 9/29/2016  | 190          |
| 11/16/2016 | 240          |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 180          |
| 1/19/2017  |              |
| 3/2/2017   | 170          |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 170          |
| 7/13/2017  | 150          |
| 10/10/2017 | 160          |
| 6/12/2018  | 170          |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 48           |
| 1/29/2019  | 280          |
| 3/25/2019  | 250          |
| 3/26/2019  | 180          |
| 9/10/2019  | 140          |
| 3/9/2020   | 230          |
| 3/10/2020  | 170          |
| 9/16/2020  | 260          |
| 9/17/2020  | 190          |
| 3/23/2021  | 320          |
| 3/24/2021  | 270          |
| 8/23/2021  | 190          |
| 8/24/2021  |              |
| 8/25/2021  | 280          |
| 2/22/2022  | 230          |
| 2/23/2022  | 190          |
| 8/2/2022   | 270          |
| 8/3/2022   | 150          |
| 8/4/2022   | 100 (D)      |
| 2/7/2023   | 190          |
| 2/8/2023   | 260          |

## FIGURE E.

### Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:13 PM

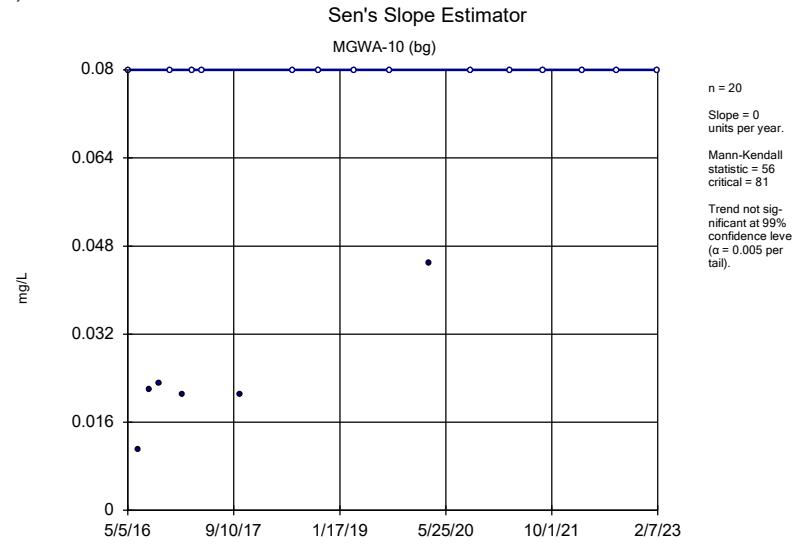
| <u>Constituent</u> | <u>Well</u>  | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)       | MGWA-6 (bg)  | -0.01886     | -132         | -81             | Yes         | 20       | 20          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-2       | -0.272       | -138         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-7       | 0.09682      | 143          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-8       | 0.578        | 85           | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-5 (bg)  | -0.2156      | -111         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6 (bg)  | -1.138       | -164         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6A (bg) | -0.4011      | -37          | -30             | Yes         | 10       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-2       | -1.562       | -162         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-7       | -0.5888      | -126         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-8       | 0.4104       | 97           | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-10 (bg) | -0.1405      | -90          | -81             | Yes         | 20       | 35          | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-5 (bg)  | -0.6815      | -128         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-6 (bg)  | -2.922       | -155         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-2       | -23.35       | -162         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-3       | 6.754        | 138          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-7       | 6.288        | 88           | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-8       | 42.97        | 106          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-2       | -33.46       | -142         | -81             | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-8       | 68.04        | 110          | 81              | Yes         | 20       | 0           | n/a              | n/a          | 0.01         | NP            |

### Appendix III Trend Tests - All Results

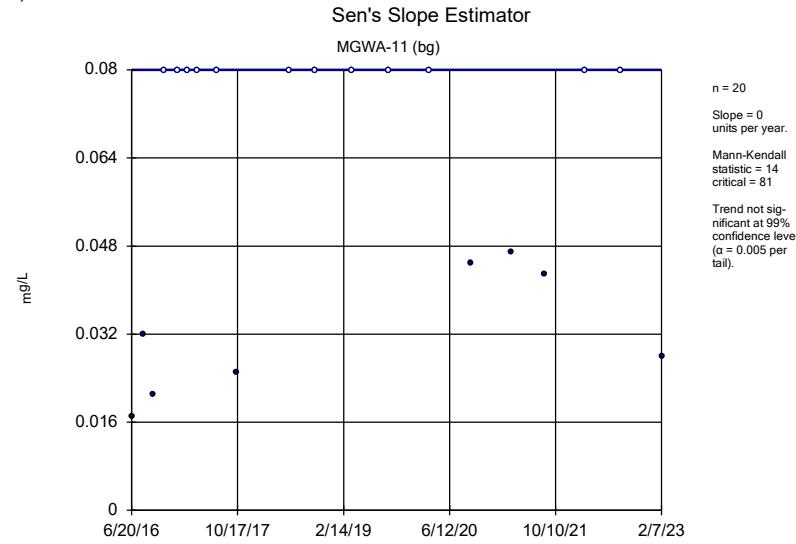
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/7/2023, 4:13 PM

| <u>Constituent</u>     | <u>Well</u>         | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------------|-----------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)           | MGWA-10 (bg)        | 0               | 56           | 81              | No          | 20        | 70          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-11 (bg)        | 0               | 14           | 81              | No          | 20        | 60          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-5 (bg)         | 0               | 14           | 81              | No          | 20        | 85          | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWA-6 (bg)</b>  | <b>-0.01886</b> | <b>-132</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>20</b>   | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWA-6A (bg)        | 0               | -5           | -30             | No          | 10        | 70          | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWC-1              | 0.1362          | 78           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-2</b>       | <b>-0.272</b>   | <b>-138</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWC-3              | -0.02947        | -29          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-7</b>       | <b>0.09682</b>  | <b>143</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| <b>Boron (mg/L)</b>    | <b>MGWC-8</b>       | <b>0.578</b>    | <b>85</b>    | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-10 (bg)        | 0               | 5            | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-11 (bg)        | -0.02923        | -17          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWA-5 (bg)</b>  | <b>-0.2156</b>  | <b>-111</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-6 (bg)         | -1.138          | -164         | -81             | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-6A (bg)        | -0.4011         | -37          | -30             | Yes         | 10        | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWC-1              | 0               | -52          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-2</b>       | <b>-1.562</b>   | <b>-162</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-3              | 0               | 36           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.5888</b>  | <b>-126</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-8              | 0.4104          | 97           | 81              | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-10 (bg)        | 0               | -37          | -87             | No          | 21        | 66.67       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-11 (bg)        | -0.00351        | -19          | -87             | No          | 21        | 9.524       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-5 (bg)         | -0.004835       | -65          | -87             | No          | 21        | 19.05       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6 (bg)         | -0.005254       | -61          | -87             | No          | 21        | 28.57       | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6A (bg)        | 0               | 1            | 30              | No          | 10        | 20          | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWC-12             | -0.01405        | -67          | -87             | No          | 21        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.1405</b>  | <b>-90</b>   | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>35</b>   | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-11 (bg)        | 0.187           | 59           | 81              | No          | 20        | 30          | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-5 (bg)</b>  | <b>-0.6815</b>  | <b>-128</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-6 (bg)         | -2.922          | -155         | -81             | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWA-6A (bg)        | -0.05159        | -4           | -30             | No          | 10        | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWC-1              | 2.916           | 47           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-2</b>       | <b>-23.35</b>   | <b>-162</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWC-3              | 6.754           | 138          | 81              | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-7</b>       | <b>6.288</b>    | <b>88</b>    | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWC-8              | 42.97           | 106          | 81              | Yes         | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-10 (bg)        | -2.862          | -41          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-11 (bg)        | 2.39            | 26           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-5 (bg)         | 1.211           | 17           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6 (bg)         | -1.884          | -35          | -81             | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6A (bg)        | -3.259          | -4           | -30             | No          | 10        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-1              | 10.77           | 45           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-2</b>       | <b>-33.46</b>   | <b>-142</b>  | <b>-81</b>      | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWC-3              | 7.635           | 59           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-7              | 11.09           | 65           | 81              | No          | 20        | 0           | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-8</b>       | <b>68.04</b>    | <b>110</b>   | <b>81</b>       | <b>Yes</b>  | <b>20</b> | <b>0</b>    | n/a              | n/a          | <b>0.01</b>  | <b>NP</b>     |

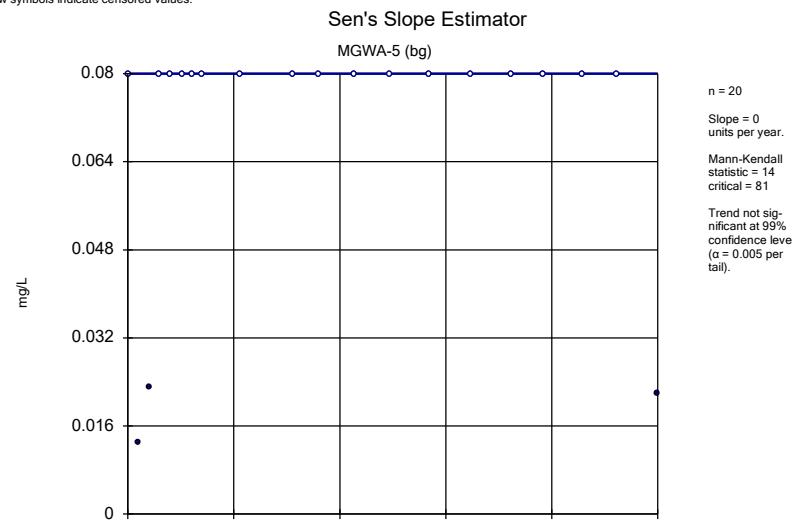
Sanitas™ v.9.6.36 , UG  
Hollow symbols indicate censored values.



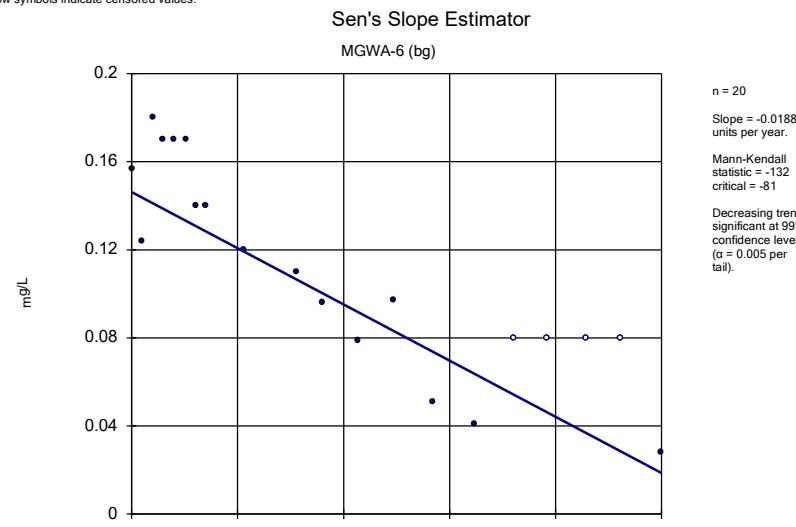
Sanitas™ v.9.6.36 , UG  
Hollow symbols indicate censored values.



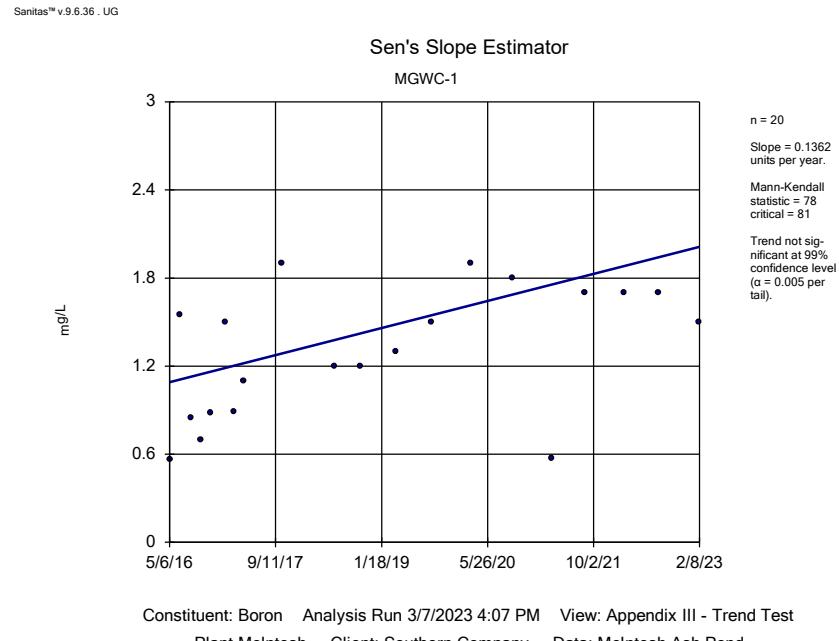
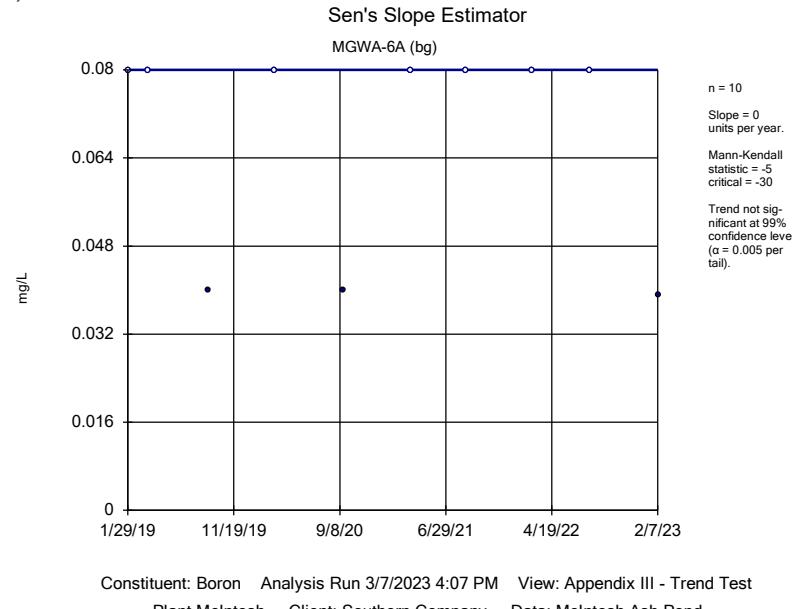
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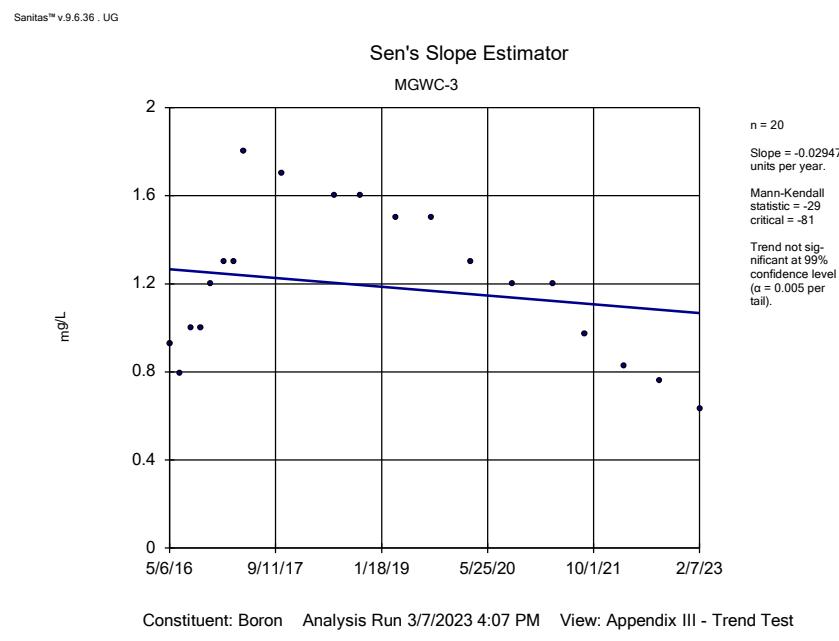
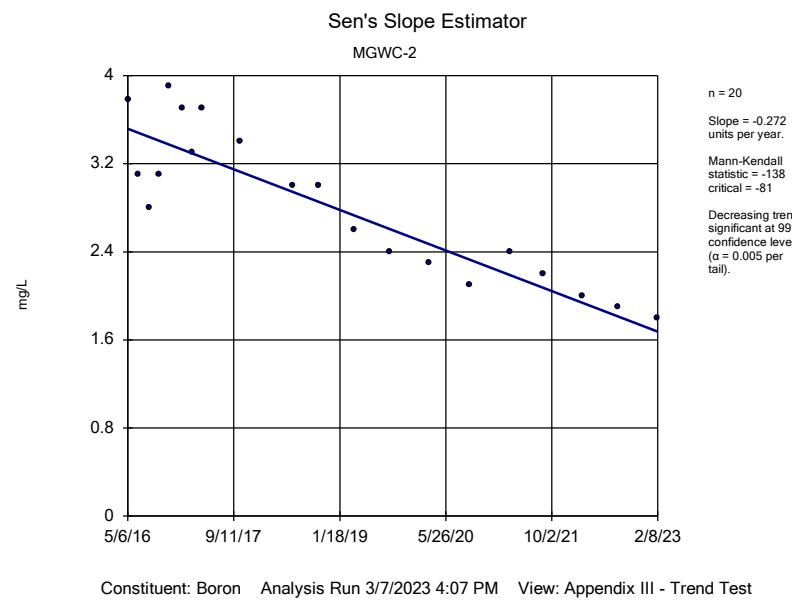
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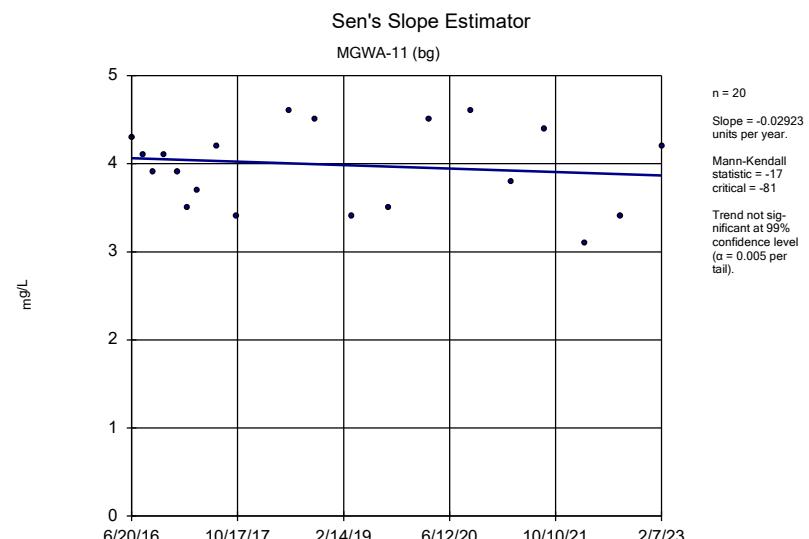
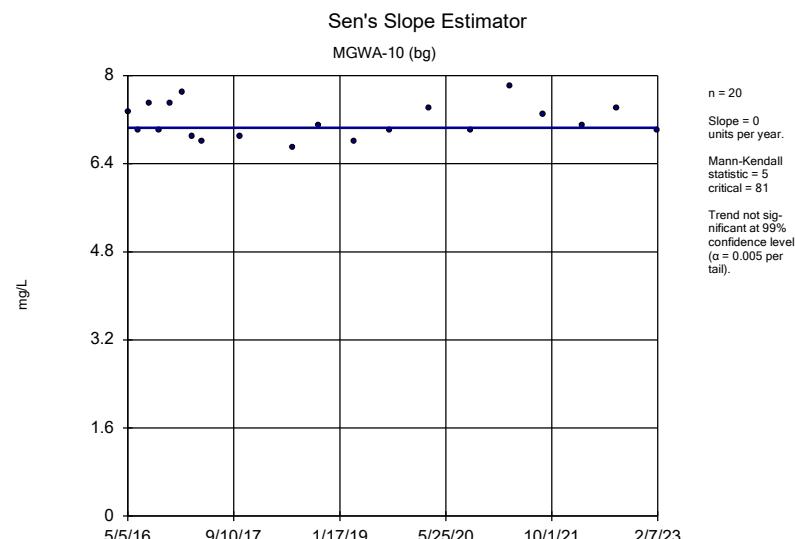
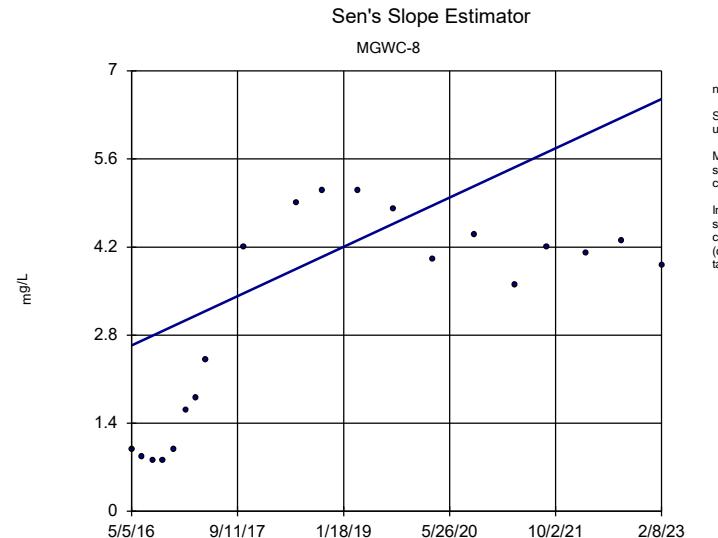
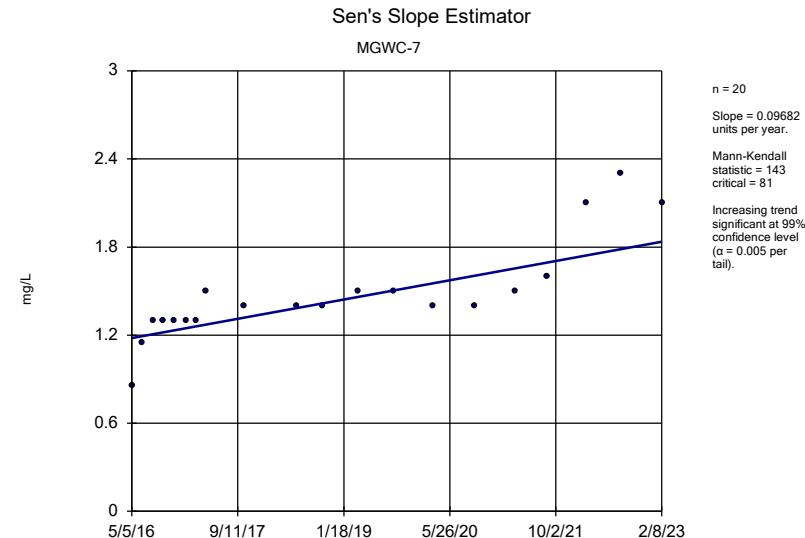


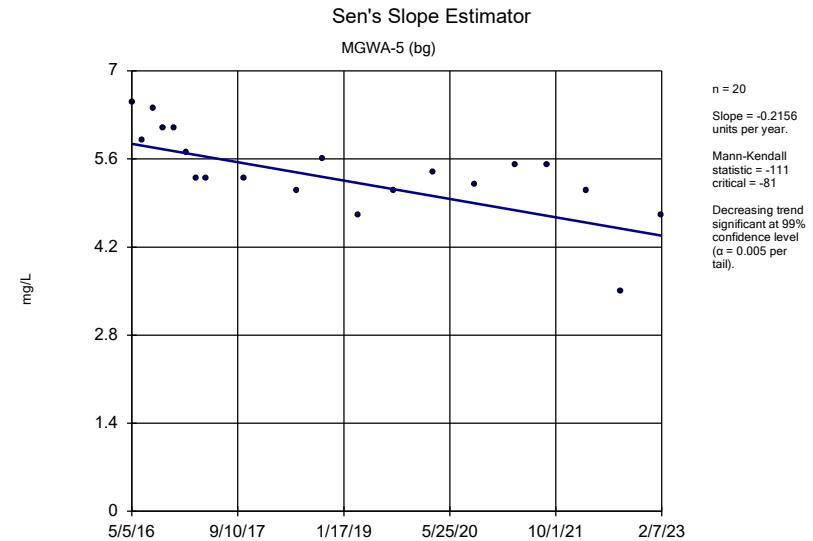
Sanitas™ v.9.6.36 , UG  
Hollow symbols indicate censored values.



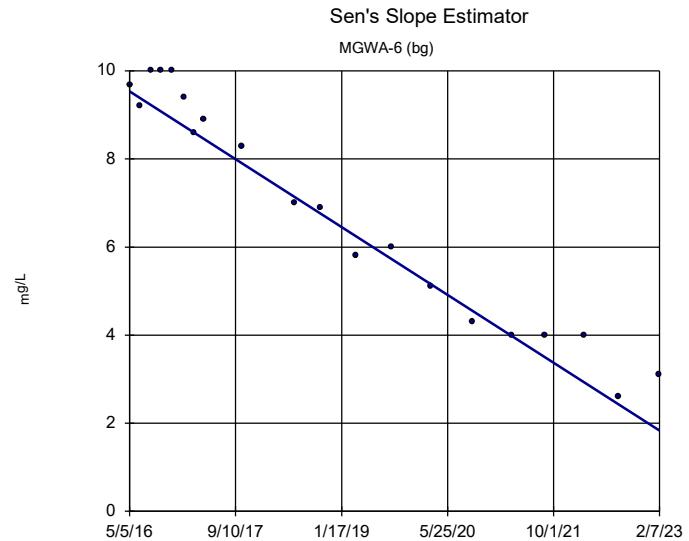
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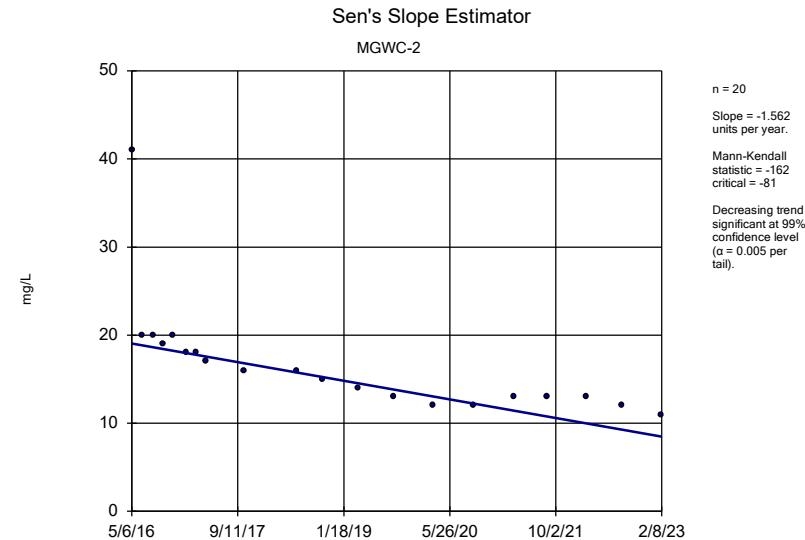
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



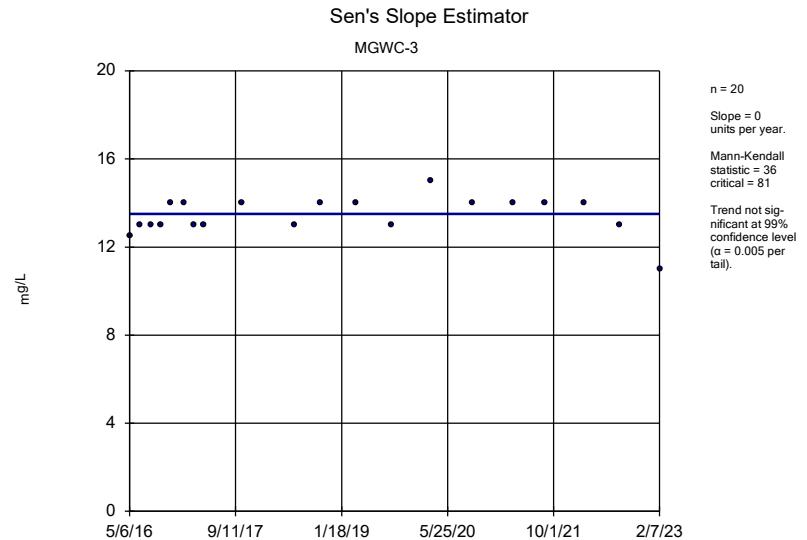
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Constituent: Chloride Analysis Run 3/7/2023 4:08 PM View: Appendix III - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

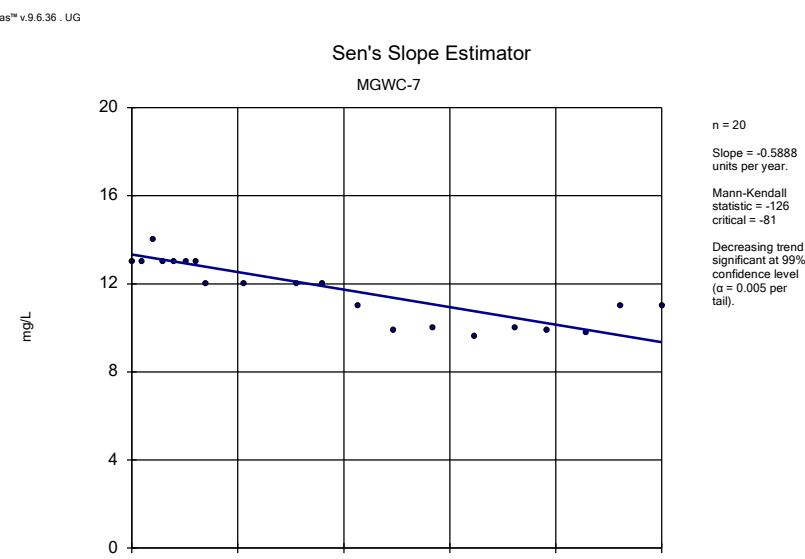
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



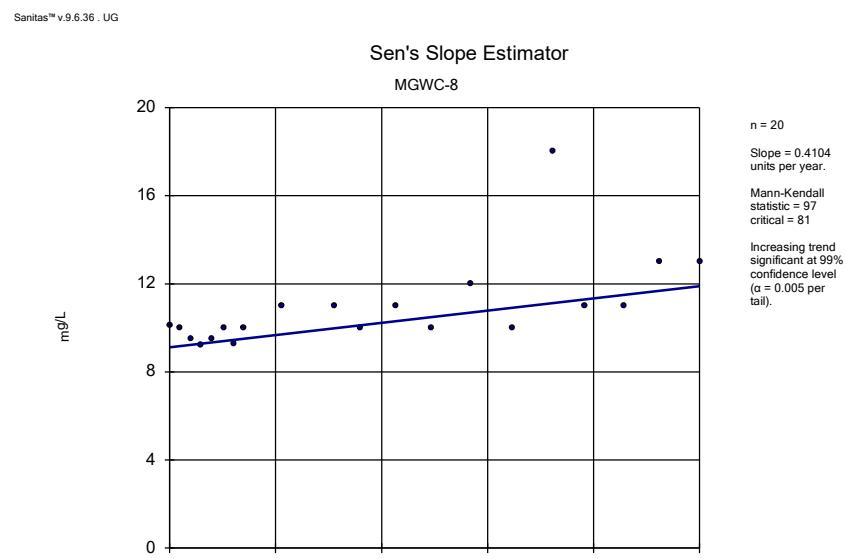
Constituent: Chloride Analysis Run 3/7/2023 4:08 PM View: Appendix III - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Chloride Analysis Run 3/7/2023 4:08 PM View: Appendix III - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

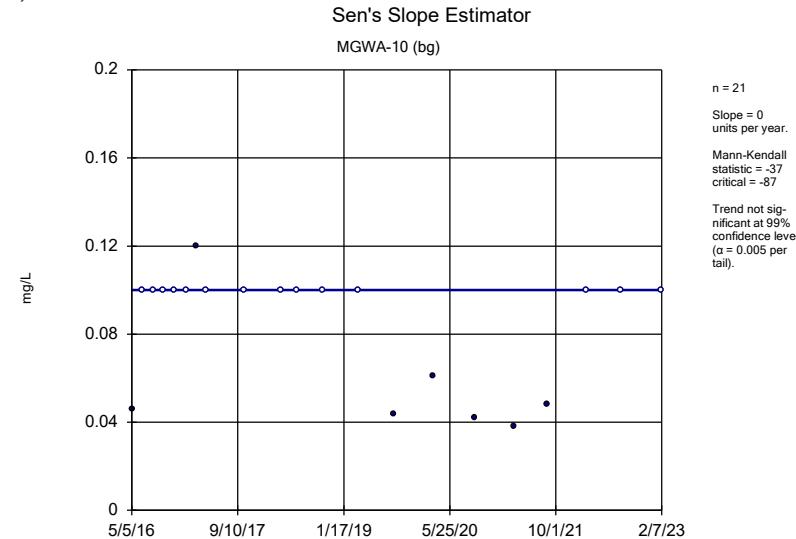


Constituent: Chloride Analysis Run 3/7/2023 4:08 PM View: Appendix III - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

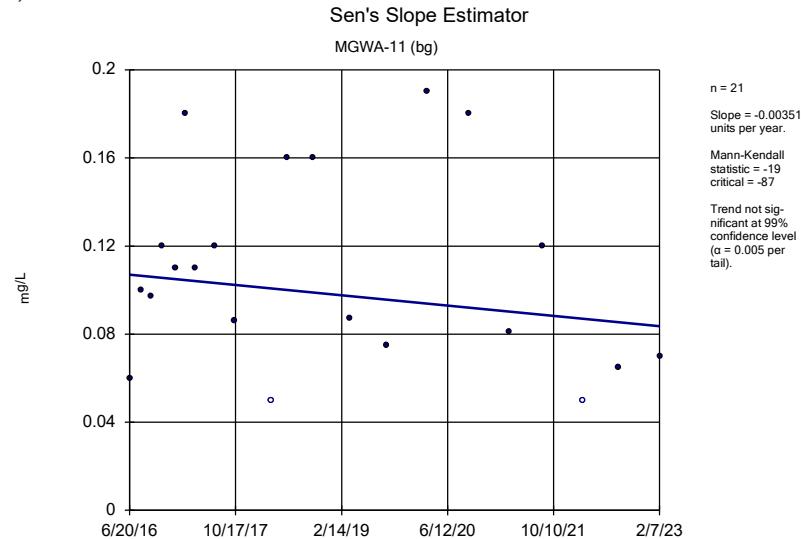


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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

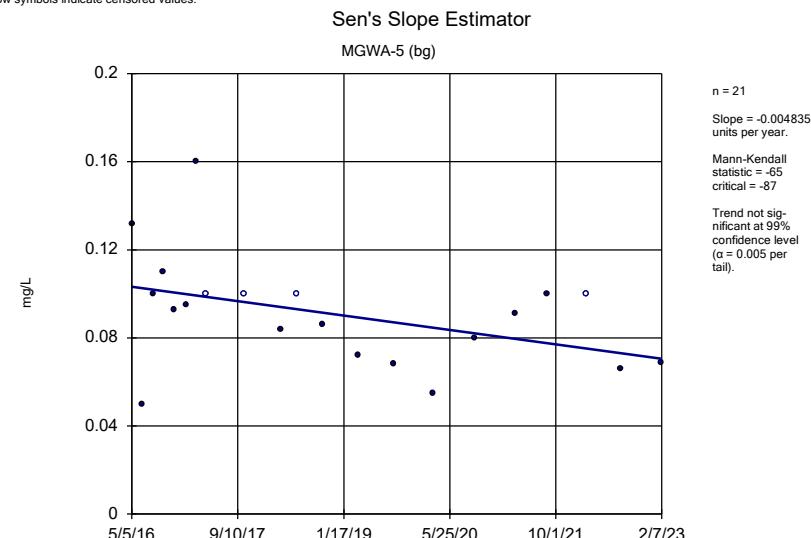
Sanitas™ v.9.6.36 , UG  
Hollow symbols indicate censored values.



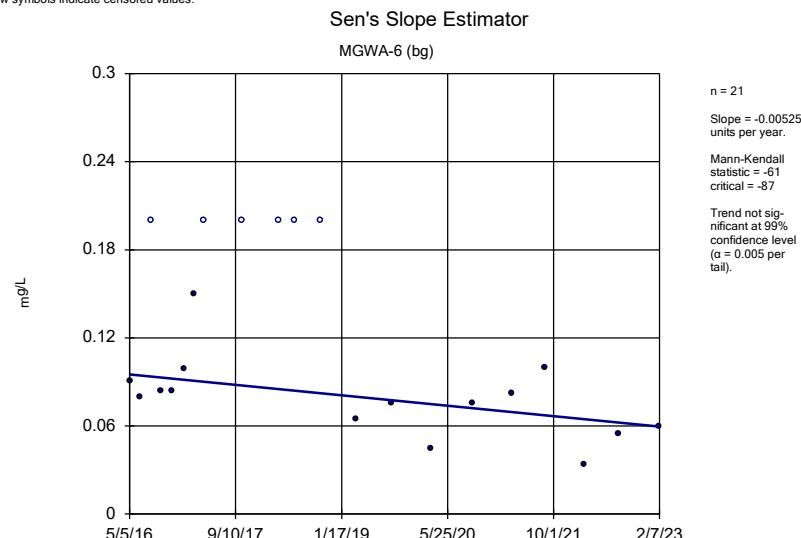
Sanitas™ v.9.6.36 , UG  
Hollow symbols indicate censored values.



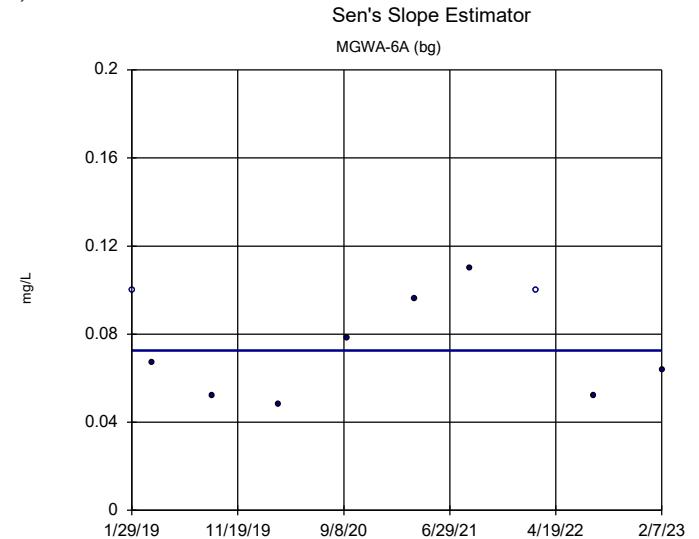
Sanitas™ v.9.6.36 , UG  
Hollow symbols indicate censored values.



Sanitas™ v.9.6.36 , UG  
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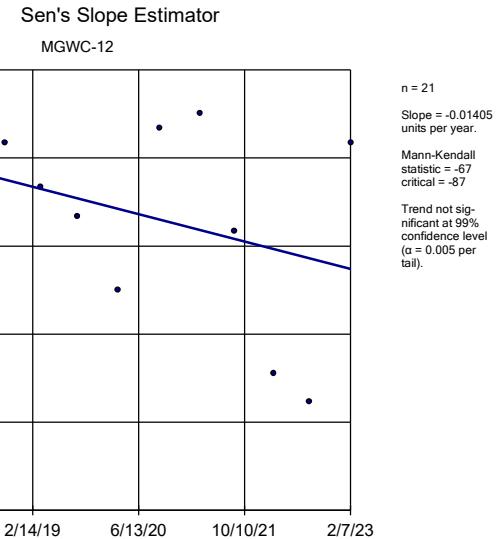


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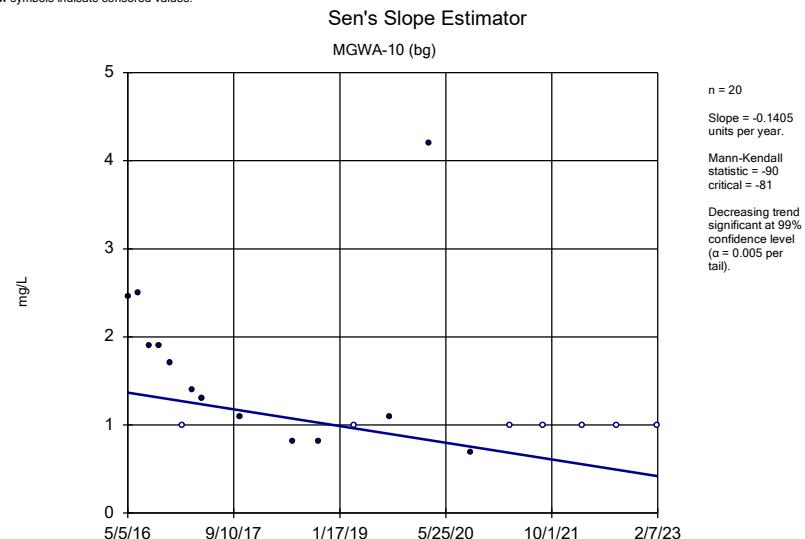
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.36 , UG



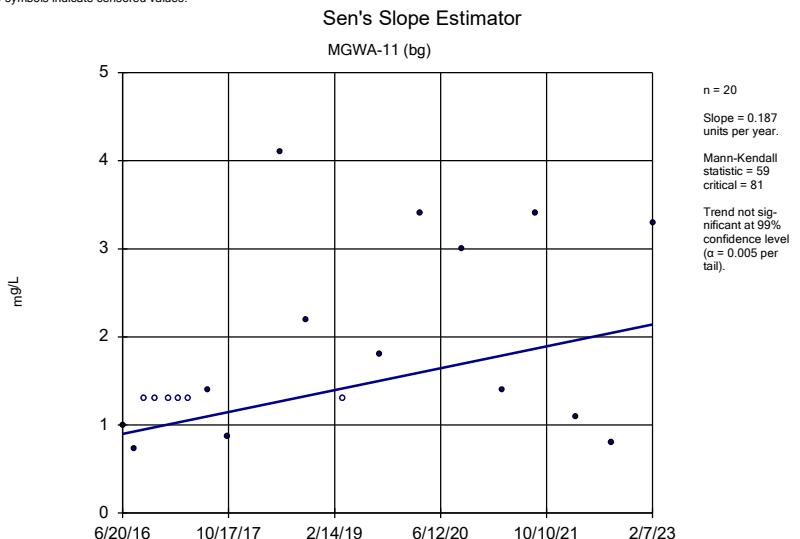
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.36 , UG  
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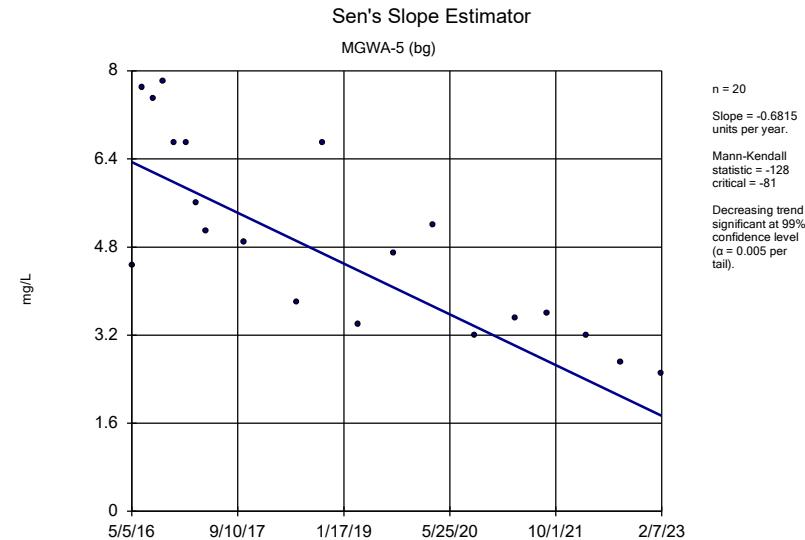


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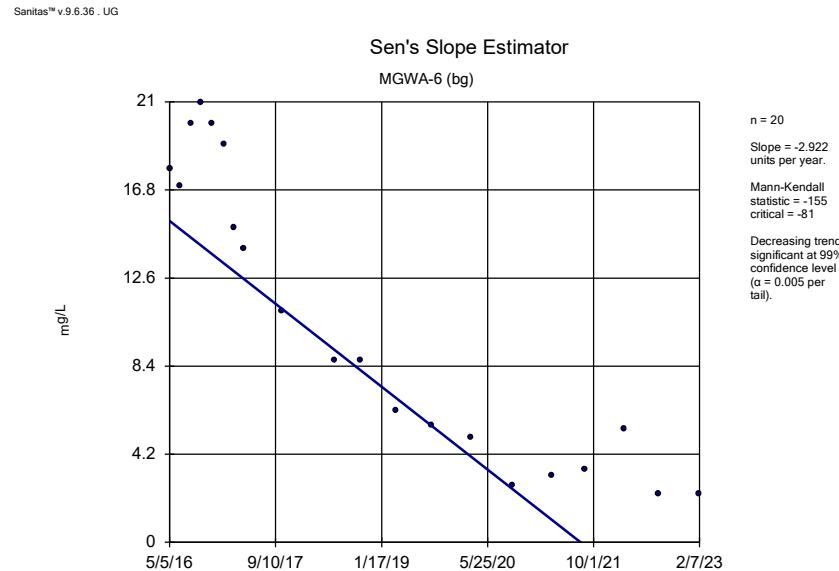
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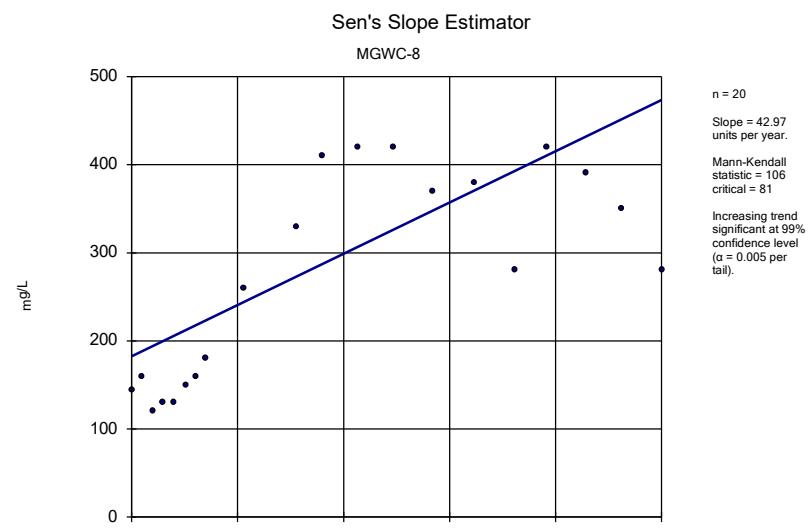
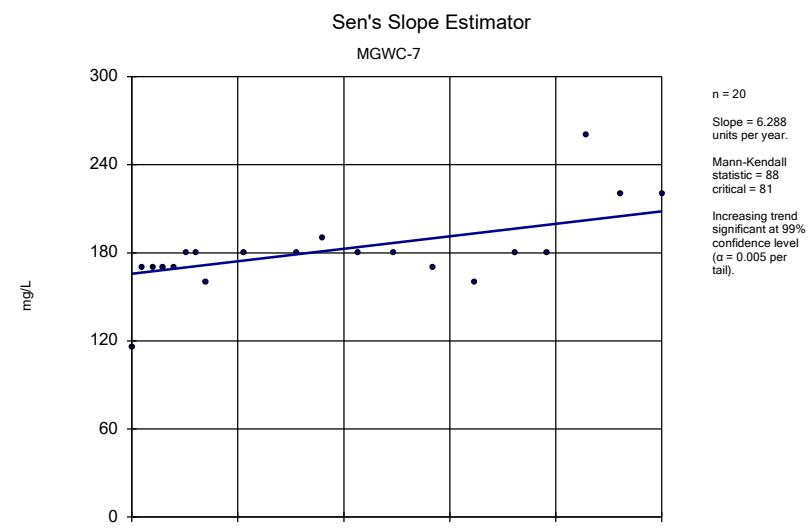
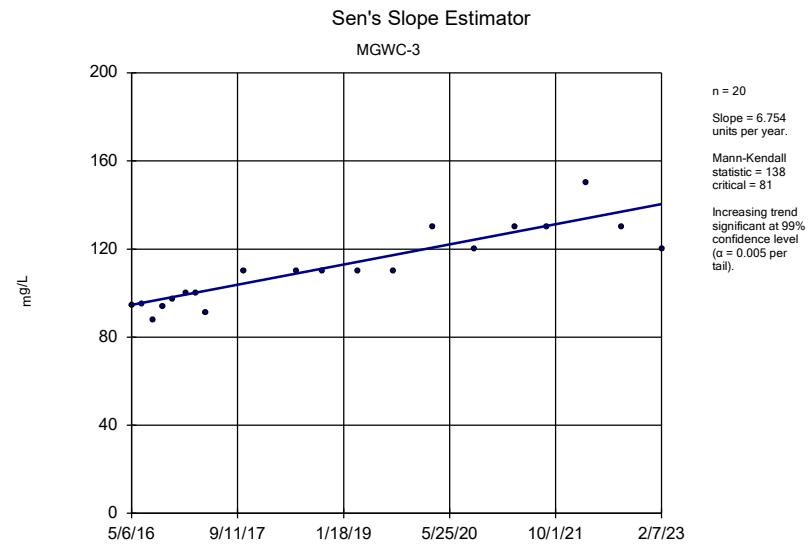
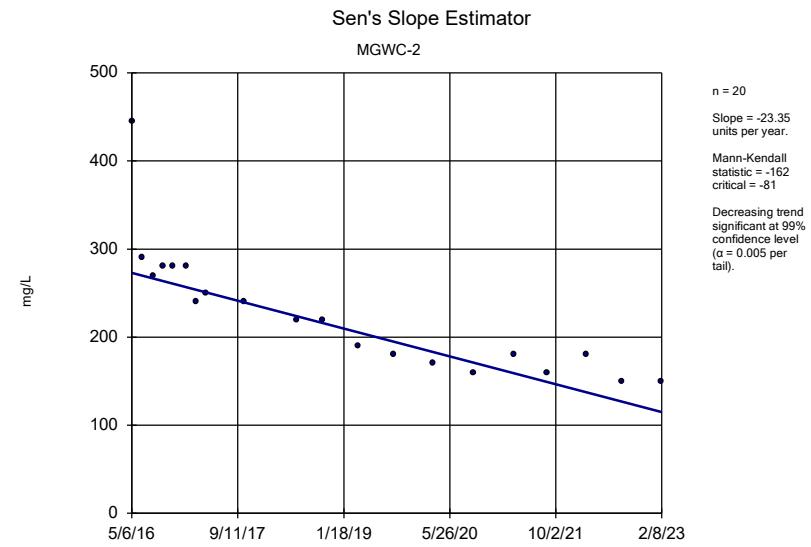


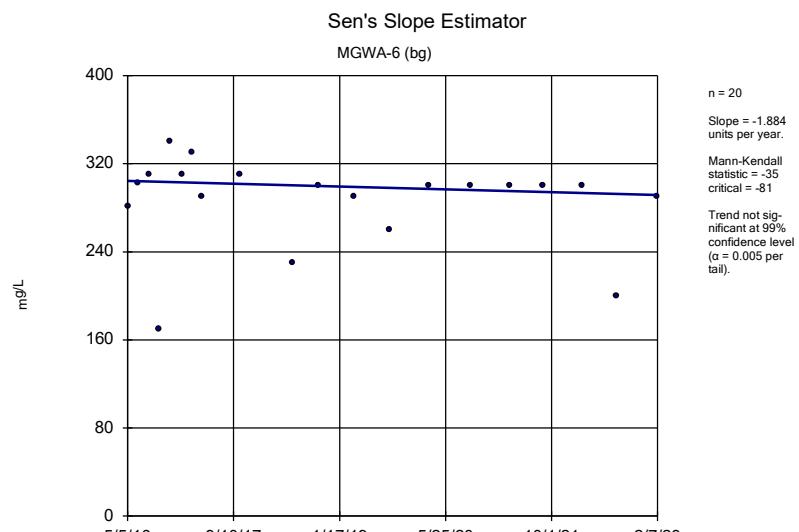
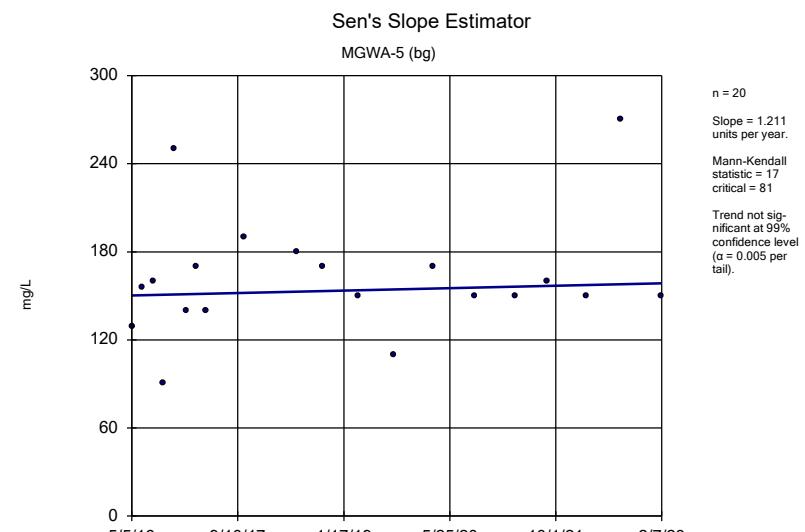
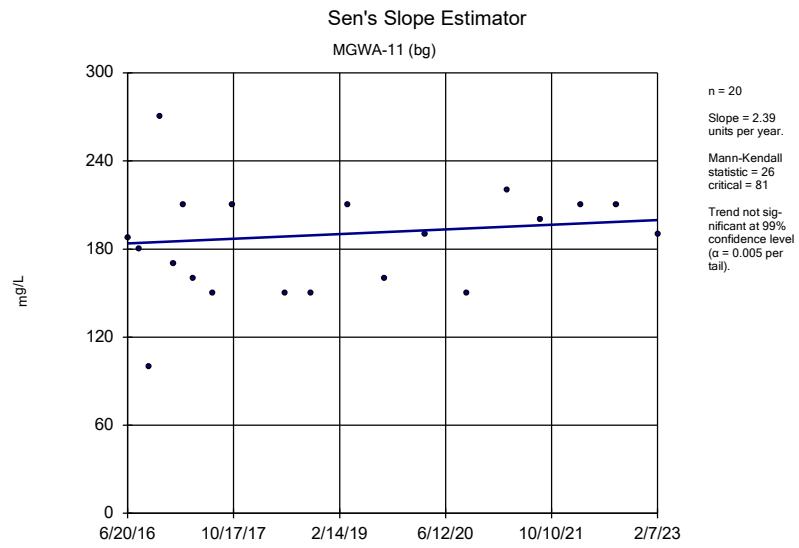
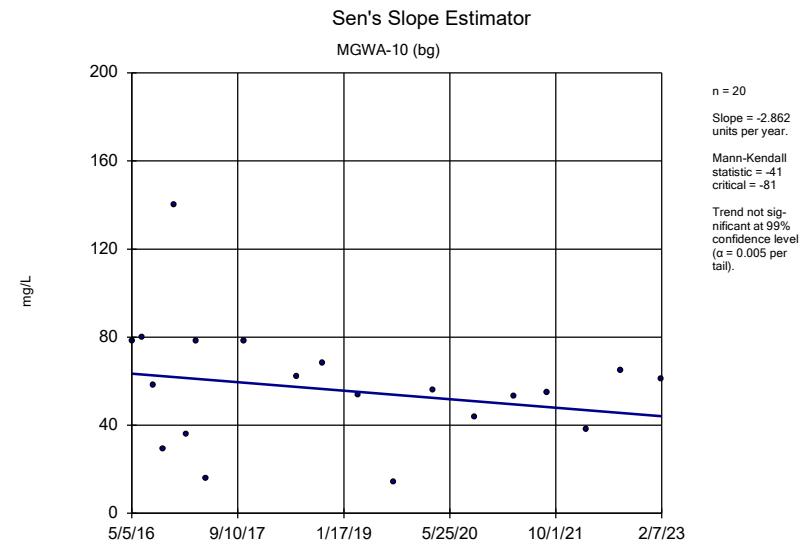
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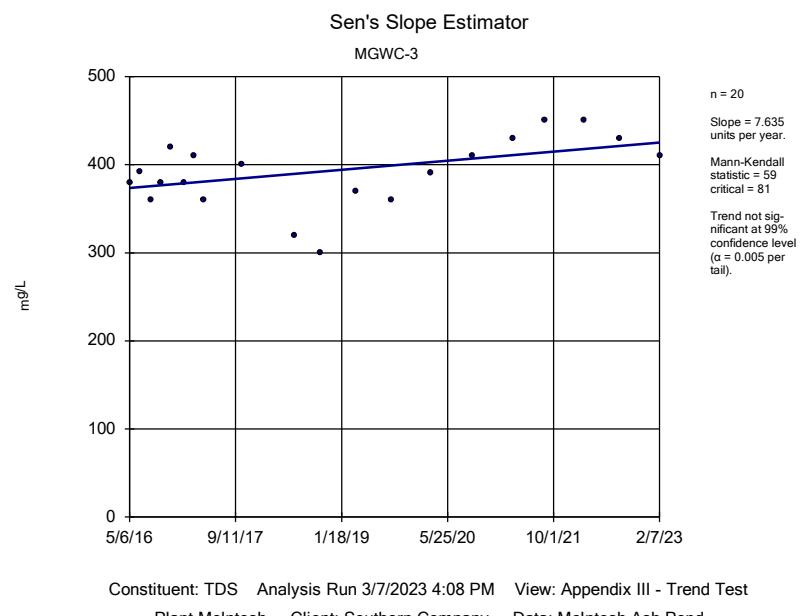
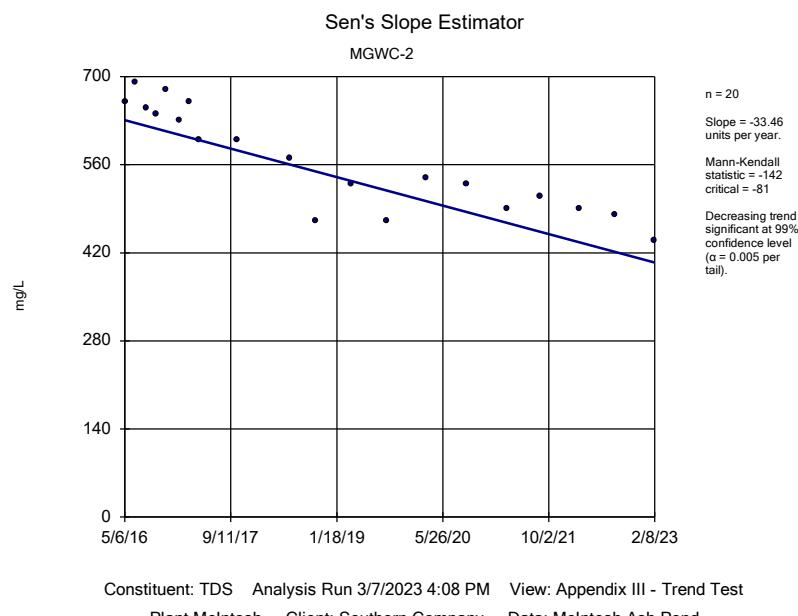
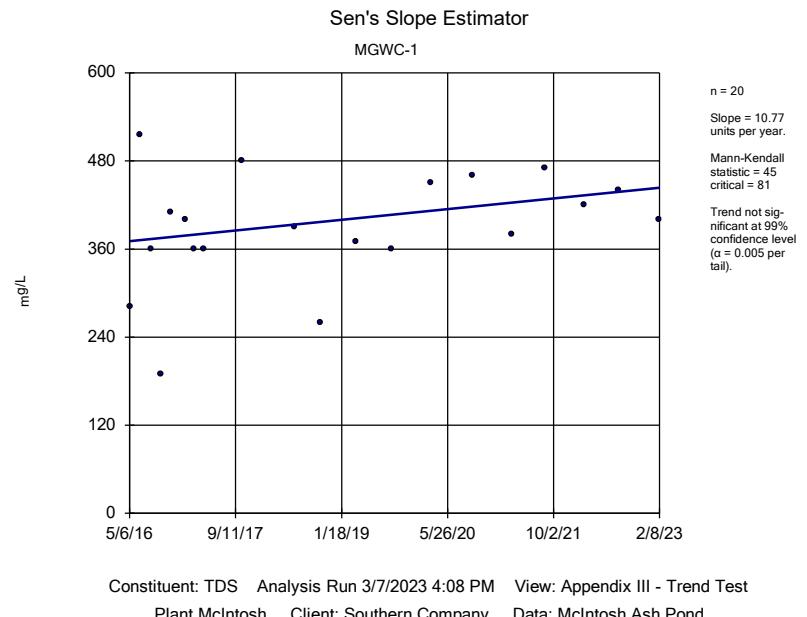
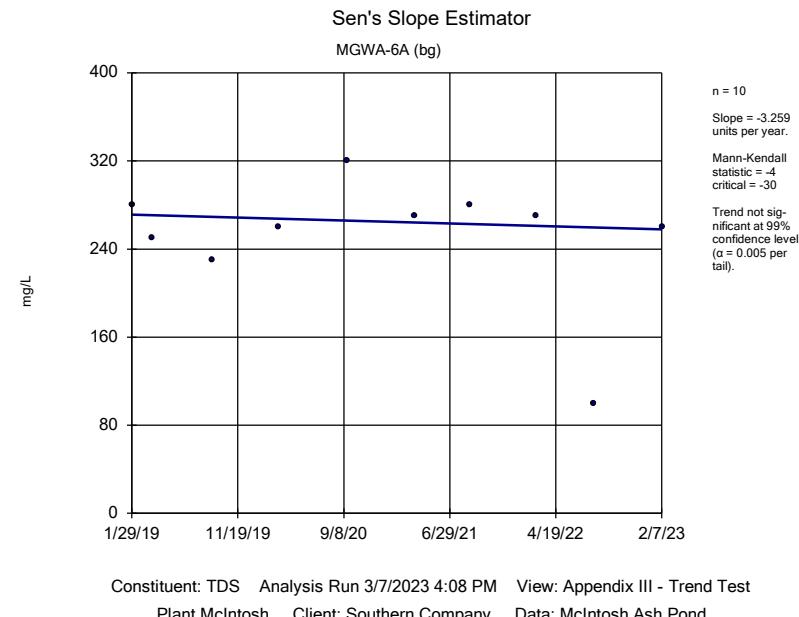


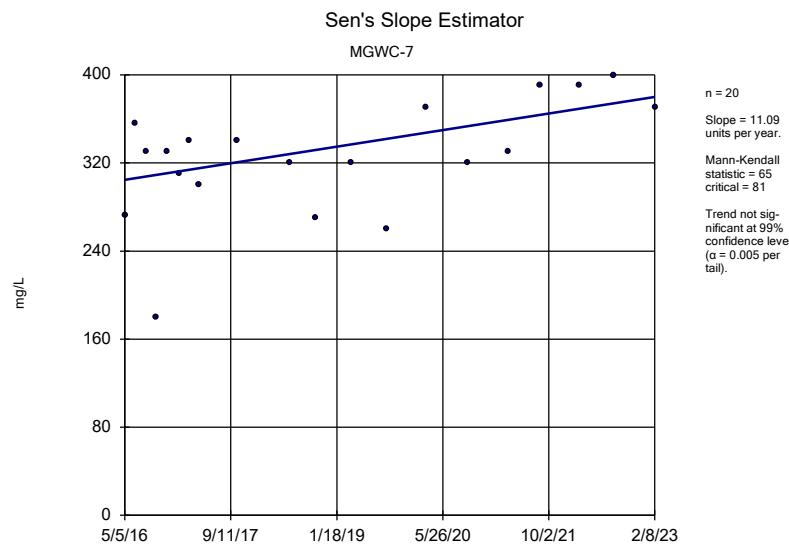
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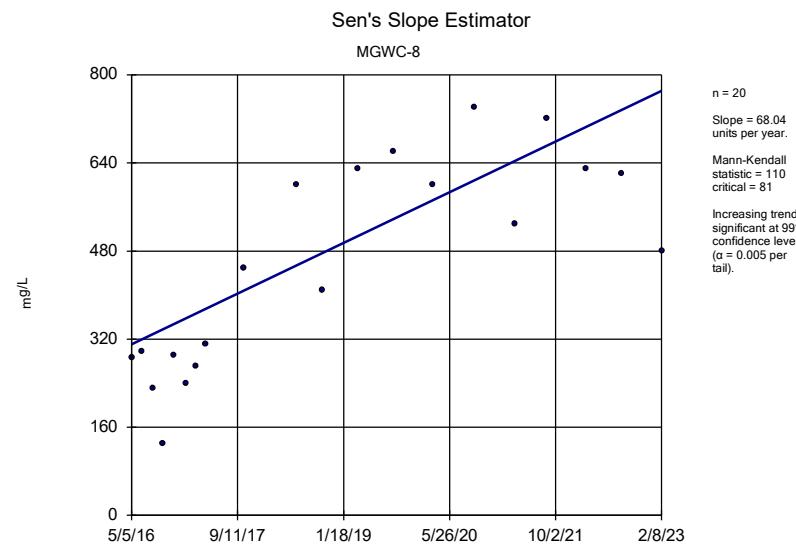








Constituent: TDS Analysis Run 3/7/2023 4:08 PM View: Appendix III - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: TDS Analysis Run 3/7/2023 4:08 PM View: Appendix III - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## FIGURE F.

## Upper Tolerance Limits Summary Table

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 8:49 PM

| <u>Constituent</u>                | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | 0.002             | n/a               | n/a         | n/a            | n/a         | 81          | 91.36       | n/a              | 0.01569      | NP Inter(NDs)       |
| Arsenic (mg/L)                    | 0.014             | n/a               | n/a         | n/a            | n/a         | 91          | 36.26       | n/a              | 0.009394     | NP Inter(normality) |
| Barium (mg/L)                     | 0.13              | n/a               | n/a         | n/a            | n/a         | 99          | 0           | n/a              | 0.006232     | NP Inter(normality) |
| Beryllium (mg/L)                  | 0.0025            | n/a               | n/a         | n/a            | n/a         | 89          | 94.38       | n/a              | 0.01041      | NP Inter(NDs)       |
| Cadmium (mg/L)                    | 0.0025            | n/a               | n/a         | n/a            | n/a         | 99          | 98.99       | n/a              | 0.006232     | NP Inter(NDs)       |
| Chromium (mg/L)                   | 0.0063            | n/a               | n/a         | n/a            | n/a         | 89          | 71.91       | n/a              | 0.01041      | NP Inter(NDs)       |
| Cobalt (mg/L)                     | 0.0025            | n/a               | n/a         | n/a            | n/a         | 98          | 72.45       | n/a              | 0.00656      | NP Inter(NDs)       |
| Combined Radium 226 + 228 (pCi/L) | 1.128             | n/a               | n/a         | n/a            | n/a         | 100         | 0           | No               | 0.05         | Inter               |
| Fluoride (mg/L)                   | 0.19              | n/a               | n/a         | n/a            | n/a         | 94          | 29.79       | n/a              | 0.008054     | NP Inter(normality) |
| Lead (mg/L)                       | 0.001             | n/a               | n/a         | n/a            | n/a         | 81          | 93.83       | n/a              | 0.01569      | NP Inter(NDs)       |
| Lithium (mg/L)                    | 0.03              | n/a               | n/a         | n/a            | n/a         | 99          | 30.3        | n/a              | 0.006232     | NP Inter(normality) |
| Mercury (mg/L)                    | 0.0002            | n/a               | n/a         | n/a            | n/a         | 89          | 96.63       | n/a              | 0.01041      | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | 0.015             | n/a               | n/a         | n/a            | n/a         | 89          | 62.92       | n/a              | 0.01041      | NP Inter(NDs)       |
| Selenium (mg/L)                   | 0.005             | n/a               | n/a         | n/a            | n/a         | 69          | 91.3        | n/a              | 0.02904      | NP Inter(NDs)       |
| Thallium (mg/L)                   | 0.001             | n/a               | n/a         | n/a            | n/a         | 89          | 83.15       | n/a              | 0.01041      | NP Inter(NDs)       |

## FIGURE G.

| PLANT MCINTOSH AP 1 GWPS       |       |                    |                  |       |
|--------------------------------|-------|--------------------|------------------|-------|
| Constituent Name               | MCL   | CCR-Rule Specified | Background Limit | GWPS  |
| Antimony, Total (mg/L)         | 0.006 |                    | 0.002            | 0.006 |
| Arsenic, Total (mg/L)          | 0.01  |                    | 0.014            | 0.014 |
| Barium, Total (mg/L)           | 2     |                    | 0.13             | 2     |
| Beryllium, Total (mg/L)        | 0.004 |                    | 0.0025           | 0.004 |
| Cadmium, Total (mg/L)          | 0.005 |                    | 0.0025           | 0.005 |
| Chromium, Total (mg/L)         | 0.1   |                    | 0.0063           | 0.1   |
| Cobalt, Total (mg/L)           | n/a   | 0.006              | 0.0025           | 0.006 |
| Combined Radium, Total (pCi/L) | 5     |                    | 1.13             | 5     |
| Fluoride, Total (mg/L)         | 4     |                    | 0.19             | 4     |
| Lead, Total (mg/L)             | n/a   | 0.015              | 0.001            | 0.015 |
| Lithium, Total (mg/L)          | n/a   | 0.04               | 0.03             | 0.04  |
| Mercury, Total (mg/L)          | 0.002 |                    | 0.0002           | 0.002 |
| Molybdenum, Total (mg/L)       | n/a   | 0.1                | 0.015            | 0.1   |
| Selenium, Total (mg/L)         | 0.05  |                    | 0.005            | 0.05  |
| Thallium, Total (mg/L)         | 0.002 |                    | 0.001            | 0.002 |

\*Grey cell indicates background is higher than MCL or CCR-Rule

\*GWPS = Groundwater Protection Standard

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

## FIGURE H.

## Confidence Intervals - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:13 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|------------------|-------------|------------------|--------------|----------------|
| Cobalt (mg/L)      | MGWC-7      | 0.009822          | 0.007005          | 0.006             | Yes         | 22       | 0.002624         | 0           | No               | 0.01         | Param.         |
| Cobalt (mg/L)      | MGWC-8      | 0.01566           | 0.007296          | 0.006             | Yes         | 22       | 0.007789         | 0           | No               | 0.01         | Param.         |
| Lithium (mg/L)     | MGWC-7      | 0.13              | 0.112             | 0.04              | Yes         | 22       | 0.01965          | 0           | No               | 0.01         | NP (normality) |

# Confidence Intervals - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:13 AM

| <u>Constituent</u>                | <u>Well</u>   | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u>  | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>         |
|-----------------------------------|---------------|-------------------|-------------------|-------------------|-------------|-----------|------------------|-------------|------------------|--------------|-----------------------|
| Antimony (mg/L)                   | MGWC-12       | 0.002             | 0.0015            | 0.006             | No          | 18        | 0.0003884        | 88.89       | No               | 0.01         | NP (NDs)              |
| Antimony (mg/L)                   | MGWC-3        | 0.002             | 0.0003            | 0.006             | No          | 18        | 0.0004007        | 94.44       | No               | 0.01         | NP (NDs)              |
| Antimony (mg/L)                   | MGWC-7        | 0.002             | 0.00197           | 0.006             | No          | 18        | 0.0003509        | 88.89       | No               | 0.01         | NP (NDs)              |
| Arsenic (mg/L)                    | MGWC-1        | 0.002785          | 0.00192           | 0.014             | No          | 22        | 0.0008054        | 0           | No               | 0.01         | Param.                |
| Arsenic (mg/L)                    | MGWC-12       | 0.001076          | 0.0006626         | 0.014             | No          | 22        | 0.0003659        | 27.27       | No               | 0.01         | Param.                |
| Arsenic (mg/L)                    | MGWC-2        | 0.001             | 0.00068           | 0.014             | No          | 22        | 0.0001986        | 81.82       | No               | 0.01         | NP (NDs)              |
| Arsenic (mg/L)                    | MGWC-3        | 0.0017            | 0.00143           | 0.014             | No          | 22        | 0.0003425        | 4.545       | No               | 0.01         | NP (normality)        |
| Arsenic (mg/L)                    | MGWC-7        | 0.0008144         | 0.0005167         | 0.014             | No          | 22        | 0.000281         | 36.36       | No               | 0.01         | Param.                |
| Arsenic (mg/L)                    | MGWC-8        | 0.001             | 0.00099           | 0.014             | No          | 22        | 0.000195         | 68.18       | No               | 0.01         | NP (NDs)              |
| Barium (mg/L)                     | MGWC-1        | 0.11              | 0.096             | 2                 | No          | 22        | 0.01606          | 0           | No               | 0.01         | NP (normality)        |
| Barium (mg/L)                     | MGWC-12       | 0.06494           | 0.05014           | 2                 | No          | 22        | 0.01378          | 0           | No               | 0.01         | Param.                |
| Barium (mg/L)                     | MGWC-2        | 0.05376           | 0.04819           | 2                 | No          | 22        | 0.005188         | 0           | No               | 0.01         | Param.                |
| Barium (mg/L)                     | MGWC-3        | 0.1553            | 0.1413            | 2                 | No          | 22        | 0.01302          | 0           | No               | 0.01         | Param.                |
| Barium (mg/L)                     | MGWC-7        | 0.015             | 0.01              | 2                 | No          | 22        | 0.006769         | 4.545       | No               | 0.01         | NP (normality)        |
| Barium (mg/L)                     | MGWC-8        | 0.04016           | 0.03374           | 2                 | No          | 22        | 0.006254         | 0           | sqrt(x)          | 0.01         | Param.                |
| Beryllium (mg/L)                  | MGWC-1        | 0.0025            | 0.00018           | 0.004             | No          | 20        | 0.0005188        | 95          | No               | 0.01         | NP (NDs)              |
| Beryllium (mg/L)                  | MGWC-3        | 0.0025            | 0.00031           | 0.004             | No          | 20        | 0.0004897        | 95          | No               | 0.01         | NP (NDs)              |
| Beryllium (mg/L)                  | MGWC-8        | 0.001658          | 0.0008074         | 0.004             | No          | 20        | 0.0007486        | 15          | No               | 0.01         | Param.                |
| Cadmium (mg/L)                    | MGWC-1        | 0.0025            | 0.0005            | 0.005             | No          | 22        | 0.0009893        | 77.27       | No               | 0.01         | NP (NDs)              |
| Cadmium (mg/L)                    | MGWC-2        | 0.002982          | 0.001229          | 0.005             | No          | 22        | 0.001884         | 0           | sqrt(x)          | 0.01         | Param.                |
| Cadmium (mg/L)                    | MGWC-7        | 0.0025            | 0.00041           | 0.005             | No          | 22        | 0.0006421        | 90.91       | No               | 0.01         | NP (NDs)              |
| Cadmium (mg/L)                    | MGWC-8        | 0.001423          | 0.0005973         | 0.005             | No          | 22        | 0.001177         | 27.27       | sqrt(x)          | 0.01         | Param.                |
| Chromium (mg/L)                   | MGWC-1        | 0.0036            | 0.0014            | 0.1               | No          | 20        | 0.0003887        | 90          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-12       | 0.0032            | 0.0012            | 0.1               | No          | 20        | 0.0006042        | 85          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-2        | 0.0033            | 0.002             | 0.1               | No          | 20        | 0.0002907        | 95          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-3        | 0.003             | 0.002             | 0.1               | No          | 20        | 0.0002236        | 95          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-7        | 0.0034            | 0.0015            | 0.1               | No          | 20        | 0.0003768        | 85          | No               | 0.01         | NP (NDs)              |
| Chromium (mg/L)                   | MGWC-8        | 0.0031            | 0.0013            | 0.1               | No          | 20        | 0.0002984        | 90          | No               | 0.01         | NP (NDs)              |
| Cobalt (mg/L)                     | MGWC-1        | 0.0025            | 0.00047           | 0.006             | No          | 22        | 0.001026         | 63.64       | No               | 0.01         | NP (NDs)              |
| Cobalt (mg/L)                     | MGWC-12       | 0.0025            | 0.0015            | 0.006             | No          | 22        | 0.0005331        | 90.91       | No               | 0.01         | NP (NDs)              |
| Cobalt (mg/L)                     | MGWC-2        | 0.003228          | 0.002348          | 0.006             | No          | 22        | 0.0008194        | 0           | No               | 0.01         | Param.                |
| Cobalt (mg/L)                     | MGWC-3        | 0.00068           | 0.00051           | 0.006             | No          | 22        | 0.000478         | 13.64       | No               | 0.01         | NP (normality)        |
| <b>Cobalt (mg/L)</b>              | <b>MGWC-7</b> | <b>0.009822</b>   | <b>0.007005</b>   | <b>0.006</b>      | <b>Yes</b>  | <b>22</b> | <b>0.002624</b>  | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>Param.</b>         |
| <b>Cobalt (mg/L)</b>              | <b>MGWC-8</b> | <b>0.01566</b>    | <b>0.007296</b>   | <b>0.006</b>      | <b>Yes</b>  | <b>22</b> | <b>0.007789</b>  | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>Param.</b>         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-1        | 1.71              | 1.302             | 5                 | No          | 23        | 0.3905           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-12       | 0.7626            | 0.462             | 5                 | No          | 22        | 0.28             | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-2        | 0.7314            | 0.4682            | 5                 | No          | 22        | 0.2451           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-3        | 1.745             | 1.368             | 5                 | No          | 23        | 0.3608           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-7        | 1.327             | 0.9527            | 5                 | No          | 22        | 0.3488           | 0           | No               | 0.01         | Param.                |
| Combined Radium 226 + 228 (pCi/L) | MGWC-8        | 1.952             | 1.389             | 5                 | No          | 22        | 0.524            | 0           | No               | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-1        | 0.2296            | 0.1406            | 4                 | No          | 21        | 0.08068          | 0           | No               | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-12       | 0.251             | 0.1966            | 4                 | No          | 21        | 0.05902          | 0           | x^2              | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-2        | 0.2               | 0.075             | 4                 | No          | 21        | 0.05953          | 33.33       | No               | 0.01         | NP (normality)        |
| Fluoride (mg/L)                   | MGWC-3        | 0.2               | 0.079             | 4                 | No          | 21        | 0.05951          | 28.57       | No               | 0.01         | NP (normality)        |
| Fluoride (mg/L)                   | MGWC-7        | 0.3286            | 0.2146            | 4                 | No          | 21        | 0.1033           | 0           | No               | 0.01         | Param.                |
| Fluoride (mg/L)                   | MGWC-8        | 0.1073            | 0.07066           | 4                 | No          | 21        | 0.03324          | 14.29       | No               | 0.01         | Param.                |
| Lead (mg/L)                       | MGWC-12       | 0.001             | 0.0001            | 0.015             | No          | 18        | 0.0002121        | 94.44       | No               | 0.01         | NP (NDs)              |
| Lead (mg/L)                       | MGWC-7        | 0.001             | 0.0003            | 0.015             | No          | 18        | 0.0002947        | 83.33       | No               | 0.01         | NP (NDs)              |
| Lead (mg/L)                       | MGWC-8        | 0.001             | 0.00022           | 0.015             | No          | 18        | 0.0001838        | 94.44       | No               | 0.01         | NP (NDs)              |
| Lithium (mg/L)                    | MGWC-1        | 0.01225           | 0.01023           | 0.04              | No          | 22        | 0.001875         | 4.545       | No               | 0.01         | Param.                |
| Lithium (mg/L)                    | MGWC-12       | 0.02215           | 0.01652           | 0.04              | No          | 22        | 0.00524          | 0           | No               | 0.01         | Param.                |
| Lithium (mg/L)                    | MGWC-2        | 0.0066            | 0.0051            | 0.04              | No          | 22        | 0.0042           | 4.545       | No               | 0.01         | NP (normality)        |
| Lithium (mg/L)                    | MGWC-3        | 0.01343           | 0.01149           | 0.04              | No          | 22        | 0.001808         | 0           | No               | 0.01         | Param.                |
| <b>Lithium (mg/L)</b>             | <b>MGWC-7</b> | <b>0.13</b>       | <b>0.112</b>      | <b>0.04</b>       | <b>Yes</b>  | <b>22</b> | <b>0.01965</b>   | <b>0</b>    | <b>No</b>        | <b>0.01</b>  | <b>NP (normality)</b> |
| Lithium (mg/L)                    | MGWC-8        | 0.03721           | 0.02552           | 0.04              | No          | 22        | 0.01089          | 0           | No               | 0.01         | Param.                |
| Mercury (mg/L)                    | MGWC-12       | 0.0002            | 0.000086          | 0.002             | No          | 20        | 0.00003699       | 90          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-2        | 0.0002            | 0.0001            | 0.002             | No          | 20        | 0.00003435       | 90          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-3        | 0.0002            | 0.00007           | 0.002             | No          | 20        | 0.00002907       | 95          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-7        | 0.0002            | 0.00008           | 0.002             | No          | 20        | 0.00002683       | 95          | No               | 0.01         | NP (NDs)              |
| Mercury (mg/L)                    | MGWC-8        | 0.00026           | 0.00014           | 0.002             | No          | 21        | 0.0008595        | 38.1        | No               | 0.01         | NP (normality)        |
| Molybdenum (mg/L)                 | MGWC-1        | 0.0029            | 0.0012            | 0.1               | No          | 20        | 0.03016          | 20          | No               | 0.01         | NP (normality)        |
| Molybdenum (mg/L)                 | MGWC-12       | 0.015             | 0.002             | 0.1               | No          | 20        | 0.00639          | 70          | No               | 0.01         | NP (NDs)              |
| Molybdenum (mg/L)                 | MGWC-7        | 0.015             | 0.00351           | 0.1               | No          | 20        | 0.002569         | 95          | No               | 0.01         | NP (NDs)              |
| Molybdenum (mg/L)                 | MGWC-8        | 0.015             | 0.0037            | 0.1               | No          | 20        | 0.002527         | 95          | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-1        | 0.005             | 0.0005            | 0.05              | No          | 16        | 0.001125         | 93.75       | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-12       | 0.005             | 0.00027           | 0.05              | No          | 16        | 0.001182         | 93.75       | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-2        | 0.005             | 0.00045           | 0.05              | No          | 16        | 0.001137         | 93.75       | No               | 0.01         | NP (NDs)              |
| Selenium (mg/L)                   | MGWC-3        | 0.005             | 0.00044           | 0.05              | No          | 16        | 0.00114          | 93.75       | No               | 0.01         | NP (NDs)              |

# Confidence Intervals - All Results

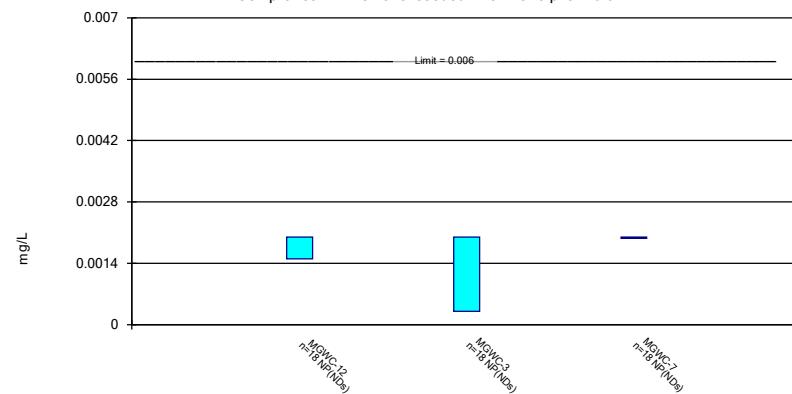
Page 2

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 3/23/2023, 12:13 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|------------------|-------------|------------------|--------------|---------------|
| Selenium (mg/L)    | MGWC-7      | 0.005             | 0.00026           | 0.05              | No          | 16       | 0.001185         | 93.75       | No               | 0.01         | NP (NDs)      |
| Selenium (mg/L)    | MGWC-8      | 0.005             | 0.00038           | 0.05              | No          | 16       | 0.001915         | 75          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-1      | 0.001             | 0.00032           | 0.002             | No          | 20       | 0.0003752        | 75          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-12     | 0.001             | 0.00027           | 0.002             | No          | 20       | 0.0002439        | 90          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-2      | 0.001             | 0.00021           | 0.002             | No          | 20       | 0.0001766        | 95          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-3      | 0.001             | 0.00037           | 0.002             | No          | 20       | 0.0002288        | 90          | No               | 0.01         | NP (NDs)      |
| Thallium (mg/L)    | MGWC-8      | 0.0002436         | 0.0001385         | 0.002             | No          | 20       | 0.0003726        | 30          | In(x)            | 0.01         | Param.        |

### Non-Parametric Confidence Interval

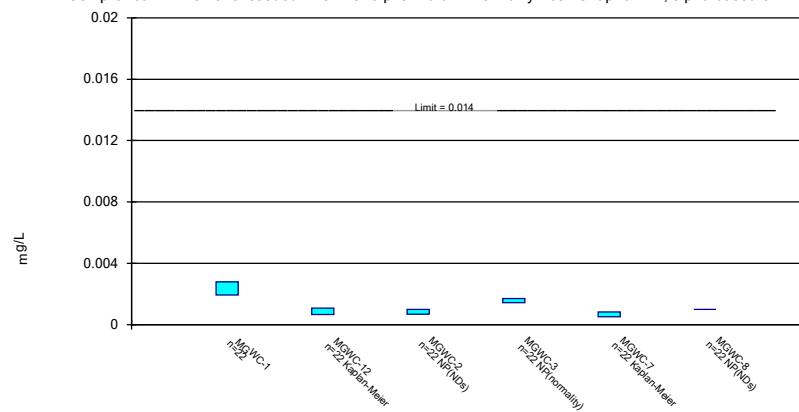
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

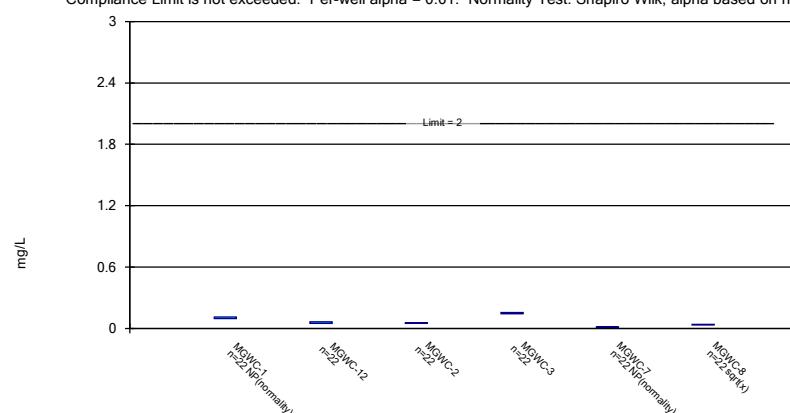
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

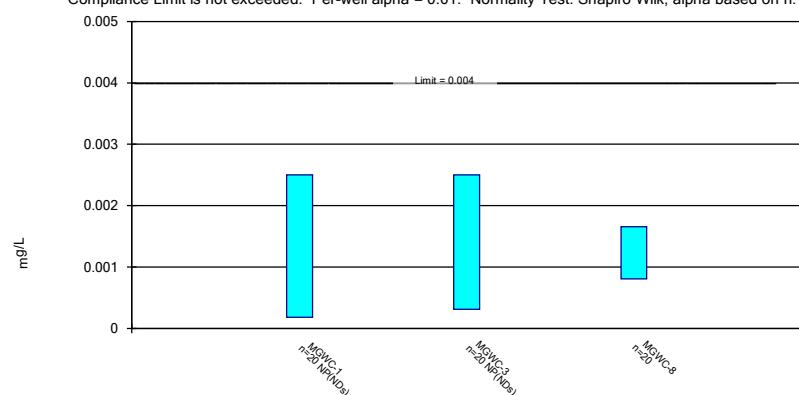
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

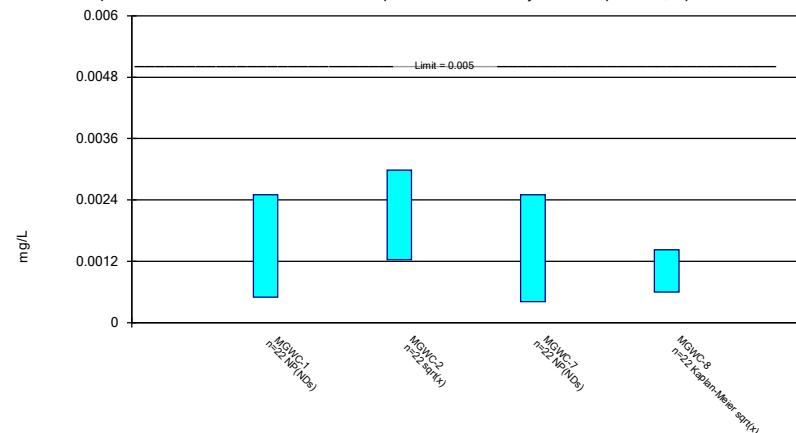
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

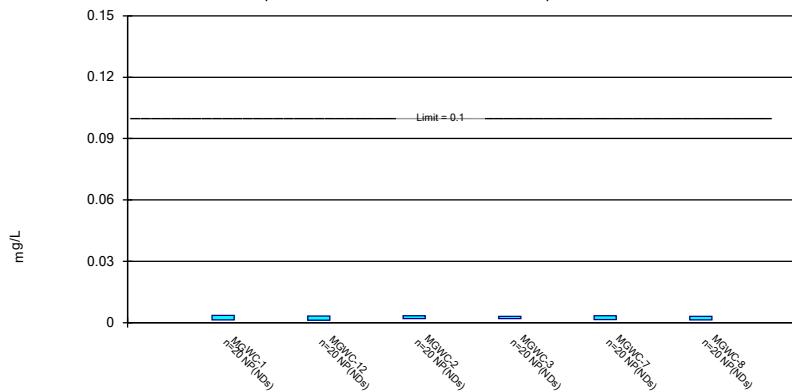
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Non-Parametric Confidence Interval

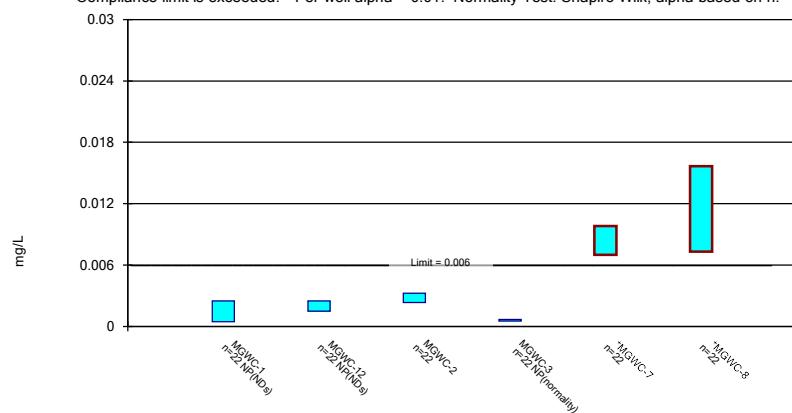
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

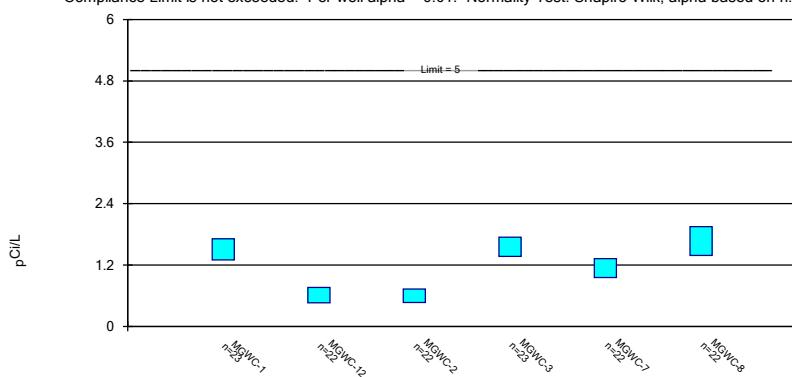
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric Confidence Interval

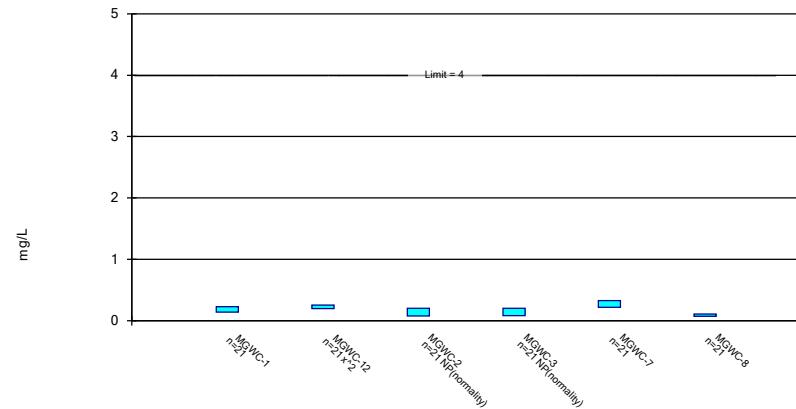
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

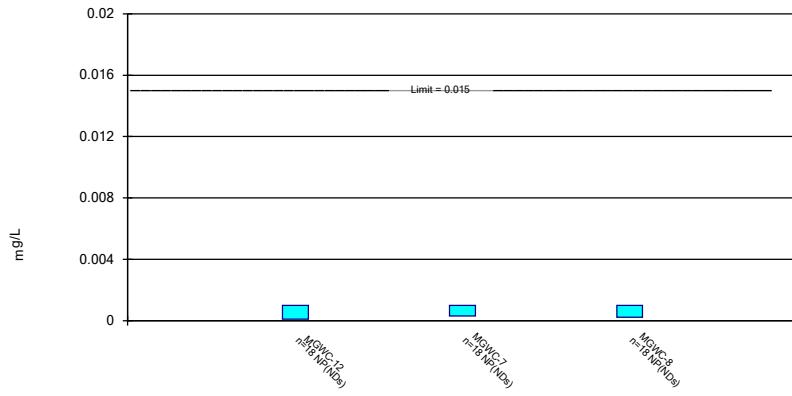
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Non-Parametric Confidence Interval

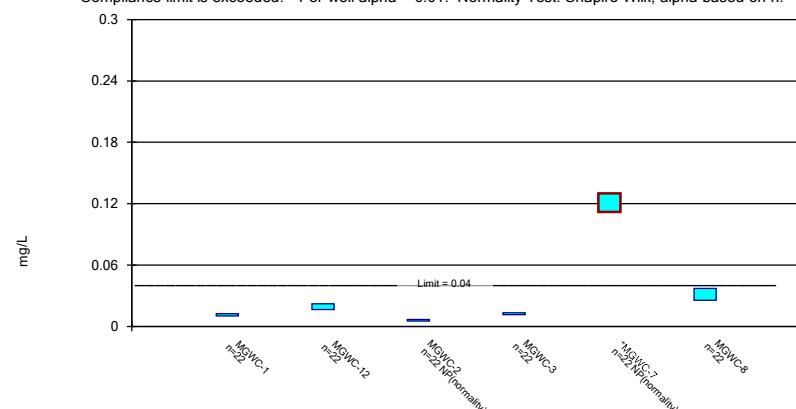
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

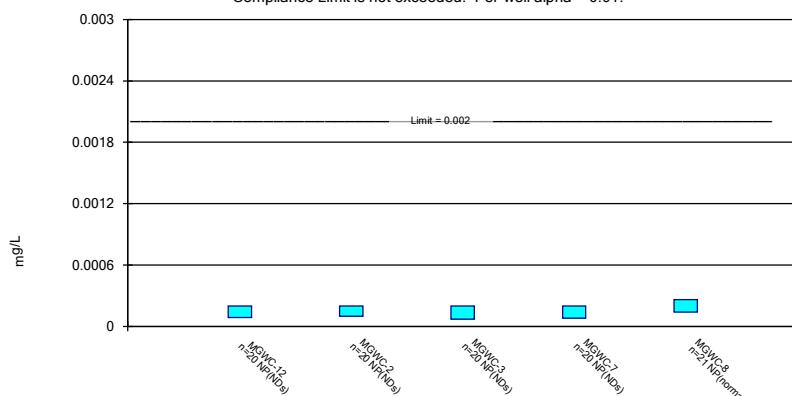
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



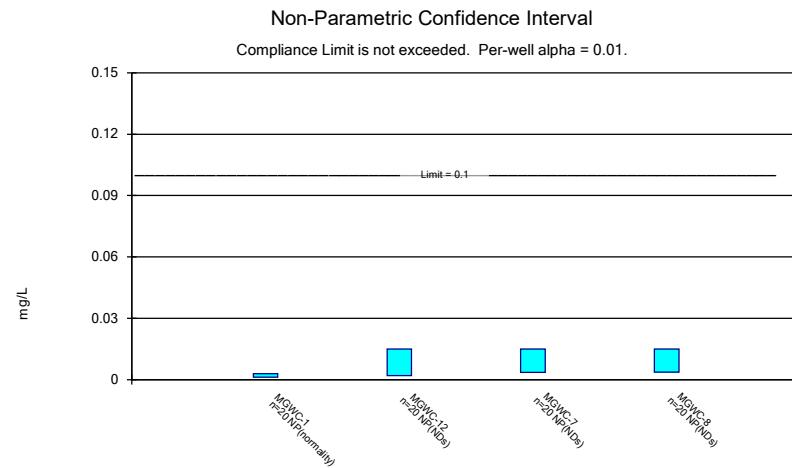
Constituent: Lithium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Non-Parametric Confidence Interval

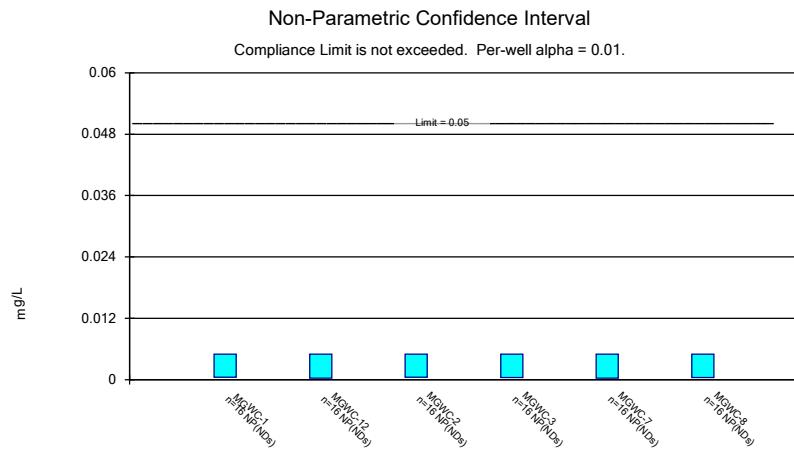
Compliance Limit is not exceeded. Per-well alpha = 0.01.



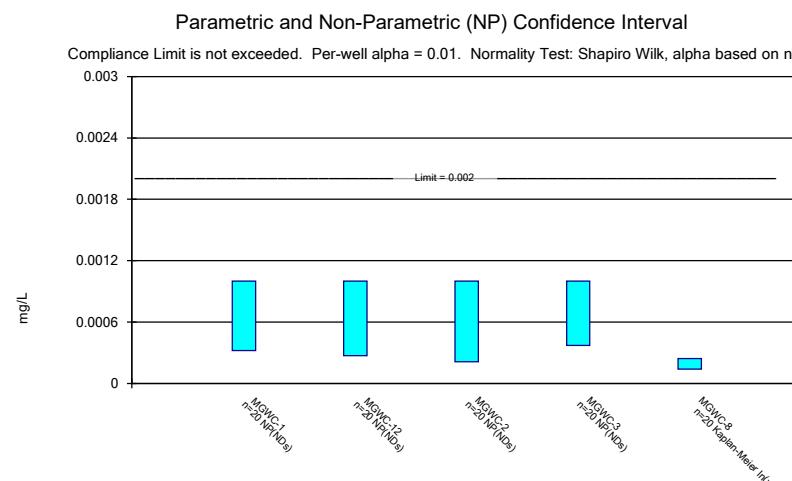
Constituent: Mercury Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Molybdenum Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Selenium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Thallium Analysis Run 3/23/2023 12:12 AM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-3     | MGWC-7      |
|------------|------------|------------|-------------|
| 5/5/2016   |            |            | 0.00197 (J) |
| 5/6/2016   |            | <0.002     |             |
| 6/21/2016  | 0.0004 (J) | 0.0003 (J) | <0.002      |
| 8/15/2016  |            |            | <0.002      |
| 8/16/2016  | <0.002     | <0.002     |             |
| 9/28/2016  |            |            | <0.002      |
| 9/29/2016  | <0.002     | <0.002     |             |
| 11/16/2016 | <0.002     | <0.002     | <0.002      |
| 1/17/2017  |            | <0.002     | <0.002      |
| 1/18/2017  | <0.002     |            |             |
| 3/2/2017   | <0.002     | <0.002     | <0.002      |
| 4/18/2017  |            | <0.002     | <0.002      |
| 4/25/2017  | <0.002     |            |             |
| 7/13/2017  | <0.002     |            |             |
| 3/29/2018  | <0.002     |            | <0.002      |
| 3/30/2018  |            | <0.002     |             |
| 1/29/2019  | <0.002     | <0.002     | <0.002      |
| 1/28/2020  | <0.002     |            | <0.002      |
| 1/29/2020  |            | <0.002     |             |
| 3/10/2020  | <0.002     | <0.002     | <0.002      |
| 9/16/2020  | <0.002     |            |             |
| 9/17/2020  |            | <0.002     | <0.002      |
| 3/24/2021  | <0.002     | <0.002     | <0.002      |
| 8/24/2021  |            | <0.002     |             |
| 8/25/2021  | <0.002     |            | <0.002      |
| 2/22/2022  | <0.002     |            |             |
| 2/23/2022  |            | <0.002     | <0.002      |
| 8/2/2022   | 0.0015 (J) |            |             |
| 8/3/2022   |            | <0.002     | <0.002      |
| 2/7/2023   | <0.002     | <0.002     |             |
| 2/8/2023   |            |            | 0.00051 (J) |
| Mean       | 0.001883   | 0.001906   | 0.001916    |
| Std. Dev.  | 0.0003884  | 0.0004007  | 0.0003509   |
| Upper Lim. | 0.002      | 0.002      | 0.002       |
| Lower Lim. | 0.0015     | 0.0003     | 0.00197     |

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             |             | 0.00143 (J) | <0.001      |
| 5/6/2016   | 0.00299 (J) |             | <0.001      | 0.00154 (J) |             |             |
| 6/21/2016  | 0.0047 (J)  | 0.0015 (J)  | <0.001      | 0.0016 (J)  | 0.0009 (J)  | <0.001      |
| 8/15/2016  |             |             |             |             | 0.0012 (J)  | <0.001      |
| 8/16/2016  | 0.003       | 0.00082 (J) | <0.001      | 0.0017      |             |             |
| 9/28/2016  | 0.0036      |             |             |             | 0.00084 (J) | <0.001      |
| 9/29/2016  |             | 0.0019      | <0.001      | 0.0013      |             |             |
| 11/16/2016 | 0.003       | 0.0017      | 0.00068 (J) | 0.0014      | <0.001      | <0.001      |
| 1/17/2017  |             |             |             | 0.00056 (J) | <0.001      | <0.001      |
| 1/18/2017  |             | 0.00096 (J) | <0.001      |             |             |             |
| 1/19/2017  | 0.0024      |             |             |             |             |             |
| 3/2/2017   | 0.0027      | 0.00082 (J) | 0.00065 (J) | 0.0018      | 0.0009 (J)  | <0.001      |
| 4/18/2017  | 0.0024      |             |             | 0.0018      | 0.0005 (J)  | 0.00059 (J) |
| 4/19/2017  |             |             | <0.001      |             |             |             |
| 4/25/2017  |             | <0.001      |             |             |             |             |
| 7/13/2017  |             | 0.00047 (J) |             |             |             |             |
| 3/29/2018  | 0.0023      | 0.00053 (J) |             |             | 0.00066 (J) |             |
| 3/30/2018  |             |             | <0.001      | 0.0017      |             | <0.001      |
| 6/12/2018  |             | 0.00063 (J) |             |             |             |             |
| 6/13/2018  | 0.0021      |             | <0.001      | 0.0015      | <0.001      | <0.001      |
| 10/10/2018 | 0.0024      | 0.00098 (J) | <0.001      | 0.0016      | <0.001      | <0.001      |
| 1/29/2019  | 0.00255     | <0.001      | <0.001      | 0.00143     | <0.001      | <0.001      |
| 3/26/2019  | 0.002       | 0.00079 (J) | <0.001      | 0.0012 (J)  | <0.001      | <0.001      |
| 9/10/2019  | 0.0018      | 0.0011      | 0.00036 (J) | 0.0017      | 0.00074 (J) | 0.00056 (J) |
| 1/28/2020  |             | 0.00051 (J) |             |             | 0.00046 (J) |             |
| 1/29/2020  | 0.0021      |             | 0.0004 (J)  | 0.0017      |             | 0.00047 (J) |
| 3/10/2020  | 0.0019      | <0.001      | <0.001      | <0.005      | <0.001      | <0.001      |
| 9/16/2020  |             | <0.001      | <0.001      |             |             |             |
| 9/17/2020  | 0.002       |             |             | 0.0015      | 0.00045 (J) | <0.001      |
| 3/24/2021  | 0.0024      | <0.001      | <0.001      | 0.0018      | 0.00046 (J) | 0.00099 (J) |
| 8/24/2021  |             |             | <0.001      | 0.0014      |             |             |
| 8/25/2021  | 0.00092 (J) | <0.001      |             |             | 0.00055 (J) | <0.001      |
| 2/22/2022  | 0.0014      | 0.00089 (J) |             |             |             |             |
| 2/23/2022  |             |             | <0.001      | 0.0016      | 0.0004 (J)  | 0.00044 (J) |
| 8/2/2022   |             | 0.0015      |             |             |             |             |
| 8/3/2022   | 0.0015      |             |             | 0.0016      | 0.00052 (J) |             |
| 8/4/2022   |             |             | <0.001      |             |             | 0.00075 (J) |
| 2/7/2023   |             | 0.00098 (J) |             | 0.0018      |             |             |
| 2/8/2023   | 0.0016      |             | <0.001      |             | <0.001      | 0.001       |
| Mean       | 0.002353    | 0.001004    | 0.0009132   | 0.001579    | 0.0008186   | 0.0009      |
| Std. Dev.  | 0.0008054   | 0.0003659   | 0.0001986   | 0.0003425   | 0.000281    | 0.000195    |
| Upper Lim. | 0.002785    | 0.001076    | 0.001       | 0.0017      | 0.0008144   | 0.001       |
| Lower Lim. | 0.00192     | 0.0006626   | 0.00068     | 0.00143     | 0.0005167   | 0.00099     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1  | MGWC-12 | MGWC-2   | MGWC-3  | MGWC-7     | MGWC-8   |
|------------|---------|---------|----------|---------|------------|----------|
| 5/5/2016   |         |         |          |         | 0.039      | 0.0364   |
| 5/6/2016   | 0.11    |         | 0.0605   | 0.151   |            |          |
| 6/21/2016  | 0.165   | 0.0439  | 0.0613   | 0.174   | 0.0152     | 0.0386   |
| 8/15/2016  |         |         |          |         | 0.015      | 0.03     |
| 8/16/2016  | 0.094   | 0.041   | 0.052    | 0.13    |            |          |
| 9/28/2016  | 0.1     |         |          |         | 0.014      | 0.034    |
| 9/29/2016  |         | 0.052   | 0.053    | 0.14    |            |          |
| 11/16/2016 | 0.096   | 0.044   | 0.056    | 0.14    | 0.013      | 0.034    |
| 1/17/2017  |         |         |          | 0.16    | 0.014      | 0.038    |
| 1/18/2017  |         | 0.056   | 0.06     |         |            |          |
| 1/19/2017  | 0.12    |         |          |         |            |          |
| 3/2/2017   | 0.097   | 0.04    | 0.056    | 0.15    | 0.013      | 0.037    |
| 4/18/2017  | 0.092   |         |          | 0.14    | 0.011      | 0.04     |
| 4/19/2017  |         |         | 0.051    |         |            |          |
| 4/25/2017  |         | 0.042   |          |         |            |          |
| 7/13/2017  |         | 0.043   |          |         |            |          |
| 3/29/2018  | 0.095   | 0.061   |          |         | 0.01       |          |
| 3/30/2018  |         |         | 0.049    | 0.13    |            | 0.041    |
| 6/12/2018  |         | 0.063   |          |         |            |          |
| 6/13/2018  | 0.096   |         | 0.05     | 0.14    | 0.0098     | 0.038    |
| 10/10/2018 | 0.095   | 0.071   | 0.046    | 0.13    | 0.011      | 0.035    |
| 1/29/2019  | 0.107   | 0.06    | 0.0496   | 0.138   | <0.0025    | 0.0344   |
| 3/26/2019  | 0.096   | 0.06    | 0.048    | 0.13    | 0.0086     | 0.032    |
| 9/10/2019  | 0.11    | 0.073   | 0.053    | 0.15    | 0.012      | 0.035    |
| 1/28/2020  |         | 0.069   |          |         | 0.012      |          |
| 1/29/2020  | 0.11    |         | 0.051    | 0.15    |            | 0.033    |
| 3/10/2020  | 0.13    | 0.056   | 0.049    | 0.15    | 0.013      | 0.036    |
| 9/16/2020  |         | 0.1     | 0.048    |         |            |          |
| 9/17/2020  | 0.11    |         |          | 0.16    | 0.0091 (J) | 0.028    |
| 3/24/2021  | 0.1     | 0.056   | 0.049    | 0.16    | 0.011      | 0.054    |
| 8/24/2021  |         |         | 0.047    | 0.16    |            |          |
| 8/25/2021  | 0.11    | 0.051   |          |         | 0.013      | 0.031    |
| 2/22/2022  | 0.11    | 0.067   |          |         |            |          |
| 2/23/2022  |         |         | 0.046    | 0.17    | 0.014      | 0.036    |
| 8/2/2022   |         | 0.057   |          |         |            |          |
| 8/3/2022   | 0.11    |         |          | 0.15    | 0.018      |          |
| 8/4/2022   |         |         | 0.042    |         |            | 0.043    |
| 2/7/2023   |         | 0.06    |          | 0.16    |            |          |
| 2/8/2023   | 0.1     |         | 0.044    |         | 0.02       | 0.052    |
| Mean       | 0.107   | 0.05754 | 0.05097  | 0.1483  | 0.0135     | 0.03711  |
| Std. Dev.  | 0.01606 | 0.01378 | 0.005188 | 0.01302 | 0.006769   | 0.006254 |
| Upper Lim. | 0.11    | 0.06494 | 0.05376  | 0.1553  | 0.015      | 0.04016  |
| Lower Lim. | 0.096   | 0.05014 | 0.04819  | 0.1413  | 0.01       | 0.03374  |

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-3      | MGWC-8      |
|------------|-------------|-------------|-------------|
| 5/5/2016   |             |             | <0.0025     |
| 5/6/2016   | <0.0025     | <0.0025     |             |
| 6/21/2016  | <0.0025     | <0.0025     | 0.0004 (J)  |
| 8/15/2016  |             |             | 0.00053 (J) |
| 8/16/2016  | <0.0025     | <0.0025     |             |
| 9/28/2016  | <0.0025     |             | 0.00049 (J) |
| 9/29/2016  |             | <0.0025     |             |
| 11/16/2016 | <0.0025     | <0.0025     | 0.0004 (J)  |
| 1/17/2017  |             | <0.0025     | 0.00084 (J) |
| 1/19/2017  | <0.0025     |             |             |
| 3/2/2017   | <0.0025     | <0.0025     | 0.00068 (J) |
| 4/18/2017  | <0.0025     | <0.0025     | 0.00067 (J) |
| 3/29/2018  | <0.0025     |             |             |
| 3/30/2018  |             | <0.0025     | 0.0015 (J)  |
| 6/13/2018  | <0.0025     | <0.0025     | 0.0012 (J)  |
| 10/10/2018 | <0.0025     | <0.0025     | 0.0016 (J)  |
| 1/29/2019  | <0.0025     | <0.0025     | <0.0025     |
| 1/29/2020  | 0.00018 (J) | 0.00031 (J) | 0.0019      |
| 3/10/2020  | <0.0025     | <0.0025     | 0.0013 (J)  |
| 9/17/2020  | <0.0025     | <0.0025     | 0.0019 (J)  |
| 3/24/2021  | <0.0025     | <0.0025     | <0.0025     |
| 8/24/2021  |             | <0.0025     |             |
| 8/25/2021  | <0.0025     |             | 0.0015 (J)  |
| 2/22/2022  | <0.0025     |             |             |
| 2/23/2022  |             | <0.0025     | 0.0014 (J)  |
| 8/3/2022   | <0.0025     | <0.0025     |             |
| 8/4/2022   |             |             | 0.00064 (J) |
| 2/7/2023   |             | <0.0025     |             |
| 2/8/2023   | <0.0025     |             | 0.0002 (J)  |
| Mean       | 0.002384    | 0.00239     | 0.001232    |
| Std. Dev.  | 0.0005188   | 0.0004897   | 0.0007486   |
| Upper Lim. | 0.0025      | 0.0025      | 0.001658    |
| Lower Lim. | 0.00018     | 0.00031     | 0.0008074   |

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1       | MGWC-2      | MGWC-7      | MGWC-8       |
|------------|--------------|-------------|-------------|--------------|
| 5/5/2016   |              |             | <0.0025     | 0.000784 (J) |
| 5/6/2016   | 0.000126 (J) | 0.00166     |             |              |
| 6/21/2016  | 0.0005 (J)   | 0.0008 (J)  | <0.0025     | 0.0003 (J)   |
| 8/15/2016  |              |             | <0.0025     | <0.0025      |
| 8/16/2016  | <0.0025      | 0.0034      |             |              |
| 9/28/2016  | <0.0025      |             | <0.0025     | <0.0025      |
| 9/29/2016  |              | 0.0027      |             |              |
| 11/16/2016 | <0.0025      | 0.0022 (J)  | <0.0025     | <0.0025      |
| 1/17/2017  |              |             | <0.0025     | <0.0025      |
| 1/18/2017  |              | 0.008       |             |              |
| 1/19/2017  | <0.0025      |             |             |              |
| 3/2/2017   | <0.0025      | 0.005       | <0.0025     | <0.0025      |
| 4/18/2017  | <0.0025      |             | <0.0025     | 0.00044 (J)  |
| 4/19/2017  |              | 0.0011 (J)  |             |              |
| 3/29/2018  | <0.0025      |             | <0.0025     |              |
| 3/30/2018  |              | 0.0016 (J)  |             | 0.00058 (J)  |
| 6/13/2018  | <0.0025      | 0.0016 (J)  | <0.0025     | 0.00076 (J)  |
| 10/10/2018 | <0.0025      | 0.001 (J)   | <0.0025     | 0.00035 (J)  |
| 1/29/2019  | <0.0025      | 0.00315     | <0.0025     | <0.0025      |
| 3/26/2019  | <0.0025      | 0.0019 (J)  | <0.0025     | 0.0005 (J)   |
| 9/10/2019  | 0.00017 (J)  | 0.0011      | <0.0025     | 0.00079 (J)  |
| 1/28/2020  |              |             | <0.0025     |              |
| 1/29/2020  | <0.0025      | 0.0054      |             | 0.0009 (J)   |
| 3/10/2020  | <0.0025      | 0.0011 (J)  | <0.0025     | 0.0011 (J)   |
| 9/16/2020  |              | 0.00053 (J) |             |              |
| 9/17/2020  | <0.0025      |             | 0.00023 (J) | 0.00072 (J)  |
| 3/24/2021  | <0.0025      | 0.0022 (J)  | <0.0025     | 0.001 (J)    |
| 8/24/2021  |              | 0.00054 (J) |             |              |
| 8/25/2021  | <0.0025      |             | <0.0025     | 0.0046       |
| 2/22/2022  | <0.0025      |             |             |              |
| 2/23/2022  |              | 0.0039      | <0.0025     | 0.0014 (J)   |
| 8/3/2022   | 8.5E-05 (J)  |             | 0.00041 (J) |              |
| 8/4/2022   |              | 0.0002 (J)  |             | 0.0037       |
| 2/8/2023   | 0.00012 (J)  | 0.0021 (J)  | <0.0025     | 0.0018 (J)   |
| Mean       | 0.001977     | 0.002326    | 0.002302    | 0.001578     |
| Std. Dev.  | 0.0009893    | 0.001884    | 0.0006421   | 0.001177     |
| Upper Lim. | 0.0025       | 0.002982    | 0.0025      | 0.001423     |
| Lower Lim. | 0.0005       | 0.001229    | 0.00041     | 0.0005973    |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1     | MGWC-12    | MGWC-2    | MGWC-3    | MGWC-7     | MGWC-8     |
|------------|------------|------------|-----------|-----------|------------|------------|
| 5/5/2016   |            |            |           |           | <0.002     | <0.002     |
| 5/6/2016   | <0.002     |            | <0.002    | <0.002    |            |            |
| 6/21/2016  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 8/15/2016  |            |            |           |           | <0.002     | <0.002     |
| 8/16/2016  | <0.002     | <0.002     | <0.002    | <0.002    |            |            |
| 9/28/2016  | <0.002     |            |           |           | <0.002     | <0.002     |
| 9/29/2016  |            | <0.002     | <0.002    | <0.002    |            |            |
| 11/16/2016 | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 1/17/2017  |            |            |           | <0.002    | <0.002     | <0.002     |
| 1/18/2017  |            | <0.002     | <0.002    |           |            |            |
| 1/19/2017  | <0.002     |            |           |           |            |            |
| 3/2/2017   | 0.0036     | 0.0032     | 0.0033    | 0.003     | 0.0034     | 0.0031     |
| 4/18/2017  | <0.002     |            |           | <0.002    | <0.002     | <0.002     |
| 4/19/2017  |            |            | <0.002    |           |            |            |
| 4/25/2017  |            | <0.002     |           |           |            |            |
| 7/13/2017  |            | <0.002     |           |           |            |            |
| 3/29/2018  | <0.002     | <0.002     |           |           | <0.002     |            |
| 3/30/2018  |            |            | <0.002    | <0.002    |            | <0.002     |
| 6/12/2018  |            | <0.002     |           |           |            |            |
| 6/13/2018  | <0.002     |            | <0.002    | <0.002    | <0.002     | <0.002     |
| 10/10/2018 | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 1/29/2019  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 1/28/2020  |            | <0.002     |           |           | 0.0015 (J) |            |
| 1/29/2020  | <0.002     |            | <0.002    | <0.002    |            | <0.002     |
| 3/10/2020  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 9/16/2020  |            | 0.029      | <0.002    |           |            |            |
| 9/17/2020  | <0.002     |            |           | <0.002    | <0.002     | <0.002     |
| 3/24/2021  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 8/24/2021  |            |            | <0.002    | <0.002    |            |            |
| 8/25/2021  | <0.002     | <0.002     |           |           | <0.002     | <0.002     |
| 2/22/2022  | <0.002     | <0.002     |           |           | <0.002     |            |
| 2/23/2022  |            |            | <0.002    | <0.002    | <0.002     | <0.002     |
| 8/2/2022   |            | <0.002     |           |           |            |            |
| 8/3/2022   | <0.002     |            |           | <0.002    | <0.002     |            |
| 8/4/2022   |            |            | <0.002    |           |            | <0.002     |
| 2/7/2023   |            | 0.0012 (J) |           | <0.002    |            |            |
| 2/8/2023   | 0.0014 (J) |            | <0.002    |           | 0.0013 (J) | 0.0013 (J) |
| Mean       | 0.00205    | 0.00337    | 0.002065  | 0.00205   | 0.00201    | 0.00202    |
| Std. Dev.  | 0.0003887  | 0.006042   | 0.0002907 | 0.0002236 | 0.0003768  | 0.0002984  |
| Upper Lim. | 0.0036     | 0.0032     | 0.0033    | 0.003     | 0.0034     | 0.0031     |
| Lower Lim. | 0.0014     | 0.0012     | 0.002     | 0.002     | 0.0015     | 0.0013     |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7     | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|------------|-------------|
| 5/5/2016   |             |             |             |             | 0.0036 (J) | 0.00359 (J) |
| 5/6/2016   | <0.0025     |             | 0.00311 (J) | <0.0025     |            |             |
| 6/21/2016  | 0.0012 (J)  | <0.0025     | 0.0031 (J)  | 0.0006 (J)  | 0.0097 (J) | 0.0033 (J)  |
| 8/15/2016  |             |             |             |             | 0.0098     | 0.0038      |
| 8/16/2016  | 0.00047 (J) | <0.0025     | 0.0034      | 0.00064 (J) |            |             |
| 9/28/2016  | 0.00058 (J) |             |             |             | 0.0095     | 0.0043      |
| 9/29/2016  |             | <0.0025     | 0.0032      | 0.00054 (J) |            |             |
| 11/16/2016 | <0.0025     | <0.0025     | 0.0032      | 0.00041 (J) | 0.0094     | 0.004       |
| 1/17/2017  |             |             |             | 0.00051 (J) | 0.0099     | 0.0051      |
| 1/18/2017  |             | <0.0025     | 0.0032      |             |            |             |
| 1/19/2017  | 0.0004 (J)  |             |             |             |            |             |
| 3/2/2017   | <0.0025     | <0.0025     | 0.0042      | 0.00064 (J) | 0.013      | 0.0064      |
| 4/18/2017  | <0.0025     |             |             | 0.00057 (J) | 0.0086     | 0.005       |
| 4/19/2017  |             |             | 0.0035      |             |            |             |
| 4/25/2017  |             | <0.0025     |             |             |            |             |
| 7/13/2017  |             | <0.0025     |             |             |            |             |
| 3/29/2018  | <0.0025     | <0.0025     |             |             | 0.0088     |             |
| 3/30/2018  |             |             | 0.0037      | 0.00068 (J) |            | 0.015       |
| 6/12/2018  |             | <0.0025     |             |             |            |             |
| 6/13/2018  | <0.0025     |             | 0.0035      | 0.00048 (J) | 0.0093     | 0.014       |
| 10/10/2018 | <0.0025     | <0.0025     | 0.0034      | 0.00063 (J) | 0.012      | 0.018       |
| 1/29/2019  | <0.0025     | <0.0025     | 0.00293     | <0.0025     | 0.0103     | 0.0159      |
| 3/26/2019  | <0.0025     | <0.0025     | 0.003       | <0.0025     | 0.009      | 0.02        |
| 9/10/2019  | 0.00032 (J) | 0.00016 (J) | 0.0027      | 0.00065     | 0.011      | 0.019       |
| 1/28/2020  |             | <0.0025     |             |             | 0.008      |             |
| 1/29/2020  | 0.00027 (J) |             | 0.003       | 0.00067     |            | 0.025       |
| 3/10/2020  | <0.0025     | <0.0025     | 0.0024 (J)  | 0.0005 (J)  | 0.0081     | 0.017       |
| 9/16/2020  |             | 0.0015 (J)  | 0.002 (J)   |             |            |             |
| 9/17/2020  | 0.0002 (J)  |             |             | 0.00053 (J) | 0.0098     | 0.024       |
| 3/24/2021  | <0.0025     | <0.0025     | 0.0019 (J)  | 0.00053 (J) | 0.0063     | 0.002 (J)   |
| 8/24/2021  |             |             | 0.0018 (J)  | 0.00034 (J) |            |             |
| 8/25/2021  | 0.00018 (J) | <0.0025     |             |             | 0.0032     | 0.021       |
| 2/22/2022  | <0.0025     | <0.0025     |             |             |            |             |
| 2/23/2022  |             |             | 0.0016 (J)  | 0.0012 (J)  | 0.007      | 0.015       |
| 8/2/2022   |             | <0.0025     |             |             |            |             |
| 8/3/2022   | <0.0025     |             |             | 0.00051 (J) | 0.0044     |             |
| 8/4/2022   |             |             | 0.0013 (J)  |             |            | 0.0092      |
| 2/7/2023   |             | <0.0025     |             | 0.0025      |            |             |
| 2/8/2023   | <0.0025     |             | 0.0012 (J)  |             | 0.0044     | 0.0019 (J)  |
| Mean       | 0.001755    | 0.002348    | 0.002788    | 0.0007673   | 0.008414   | 0.01148     |
| Std. Dev.  | 0.001026    | 0.0005331   | 0.0008194   | 0.000478    | 0.002624   | 0.007789    |
| Upper Lim. | 0.0025      | 0.0025      | 0.003228    | 0.00068     | 0.009822   | 0.01566     |
| Lower Lim. | 0.00047     | 0.0015      | 0.002348    | 0.00051     | 0.007005   | 0.007296    |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1 | MGWC-12   | MGWC-2     | MGWC-3    | MGWC-7 | MGWC-8    |
|------------|--------|-----------|------------|-----------|--------|-----------|
| 5/5/2016   |        |           |            |           | 0.75   | 1.21      |
| 5/6/2016   | 1.07   |           | 0.633      | 1.41      |        |           |
| 6/21/2016  | 2.01   | 0.292 (U) | 1.19 (U)   | 1.71      | 1.01   | 0.895 (U) |
| 8/15/2016  |        |           |            |           | 1.3    | 1.64      |
| 8/16/2016  | 1.12   | 0.232 (U) | 0.516      | 1.75      |        |           |
| 9/28/2016  | 1.09   |           | 1.11       | 0.665     | 1.06   | 2.17      |
| 9/29/2016  |        |           |            | 1.43      |        |           |
| 11/16/2016 | 1.58   | 0.798     | 0.694      | 1.9       | 0.855  | 1.49      |
| 1/17/2017  |        |           |            | 1.9       | 1.59   | 1.75      |
| 1/18/2017  |        | 0.302 (U) | 0.688      |           |        |           |
| 1/19/2017  | 1.64   |           |            |           |        |           |
| 3/2/2017   | 1.08   | 0.437     | 0.484      | 1.37      | 1.4    | 1.03      |
| 4/18/2017  | 1.23   |           |            | 1.42      | 0.684  | 1.83      |
| 4/19/2017  |        |           | 0.599      |           |        |           |
| 4/25/2017  |        | 0.391     |            |           |        |           |
| 7/13/2017  |        | 0.47      |            |           |        |           |
| 3/29/2018  | 1.21   | 0.736     |            |           | 0.822  |           |
| 3/30/2018  |        |           | 0.677      | 1.43      |        | 2.15      |
| 6/12/2018  |        | 0.438     |            |           |        |           |
| 6/13/2018  | 1.09   |           | 0.272 (U)  | 1.27      | 0.716  | 1.51      |
| 10/10/2018 | 1.95   | 0.371     | 0.336      | 1.54      | 1.51   | 2.72      |
| 1/29/2019  | 1.11   | 0.639     | 0.719      | 1.34      | 1.7    | 1.93      |
| 3/26/2019  | 1      | 0.607     | 0.41 (U)   | 1.25      | 0.784  | 1.79      |
| 9/10/2019  | 1.26   | 0.939     | 0.548      | 1.6       | 0.958  | 1.78      |
| 1/28/2020  |        | 0.465     |            |           | 1.38   |           |
| 1/29/2020  | 1.39   |           | 0.0985 (U) | 1.44      |        | 1.61      |
| 3/10/2020  | 1.4    | 0.34 (U)  | 0.589      | 1.32      | 0.903  | 1.95      |
| 9/16/2020  |        | 1.09      | 1.11       |           |        |           |
| 9/17/2020  | 1.79   |           |            | 0.666 (U) | 1.28   | 1.56      |
| 12/8/2020  | 1.87   |           |            | 1.65      |        |           |
| 3/24/2021  | 1.81   | 0.434 (U) | 0.625      | 1.58      | 1.2    | 0.636     |
| 8/24/2021  |        |           | 0.313 (U)  | 1.65      |        |           |
| 8/25/2021  | 2.12   | 0.563     |            |           | 0.767  | 2.13      |
| 2/22/2022  | 1.85   | 0.888     |            |           |        |           |
| 2/23/2022  |        |           | 0.598      | 1.47      | 1.42   | 2.62      |
| 8/2/2022   |        | 1.08      |            |           |        |           |
| 8/3/2022   | 2.2    |           |            | 2.56      | 1.11   |           |
| 8/4/2022   |        |           | 0.632      |           |        | 1.24      |
| 2/7/2023   |        | 0.849     |            | 2.14      |        |           |
| 2/8/2023   | 1.77   |           | 0.799      |           | 1.88   | 1.11      |
| Mean       | 1.506  | 0.6123    | 0.5998     | 1.556     | 1.14   | 1.671     |
| Std. Dev.  | 0.3905 | 0.28      | 0.2451     | 0.3608    | 0.3488 | 0.524     |
| Upper Lim. | 1.71   | 0.7626    | 0.7314     | 1.745     | 1.327  | 1.952     |
| Lower Lim. | 1.302  | 0.462     | 0.4682     | 1.368     | 0.9527 | 1.389     |

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1    | MGWC-12   | MGWC-2    | MGWC-3    | MGWC-7   | MGWC-8    |
|------------|-----------|-----------|-----------|-----------|----------|-----------|
| 5/5/2016   |           |           |           |           | 0.394    | 0.103 (J) |
| 5/6/2016   | 0.28 (J)  |           | 0.088 (J) | 0.086 (J) |          |           |
| 6/21/2016  | 0.36      | 0.14 (J)  | 0.19 (J)  | 0.23 (J)  | 0.49     | 0.1 (J)   |
| 8/15/2016  |           |           |           |           | 0.44     | 0.11 (J)  |
| 8/16/2016  | 0.27      | 0.29      | 0.087 (J) | <0.2      |          |           |
| 9/28/2016  | 0.26      |           | <0.2      | 0.082 (J) | 0.4      | 0.1 (J)   |
| 9/29/2016  |           | 0.26      |           |           |          |           |
| 11/16/2016 | 0.24      | 0.25      | <0.2      | 0.087 (J) | 0.36     | 0.091 (J) |
| 1/17/2017  |           |           |           | 0.086 (J) | 0.2      | <0.082    |
| 1/18/2017  |           | 0.26      | <0.2      |           |          |           |
| 1/19/2017  | 0.22      |           |           |           |          |           |
| 3/2/2017   | 0.27      | 0.28      | 0.15 (J)  | 0.15 (J)  | 0.36     | 0.16 (J)  |
| 4/18/2017  | 0.2       |           |           | <0.2      | 0.29     | <0.082    |
| 4/19/2017  |           |           | <0.2      |           |          |           |
| 4/25/2017  |           | 0.25      |           |           |          |           |
| 7/13/2017  |           | 0.21      |           |           |          |           |
| 10/10/2017 | 0.18 (J)  | 0.22      | <0.2      | <0.2      | 0.28     | <0.082    |
| 3/29/2018  | 0.16 (J)  | 0.23      |           |           | 0.23     |           |
| 3/30/2018  |           |           | <0.2      | <0.2      |          | 0.088 (J) |
| 6/12/2018  |           | 0.23      |           |           |          |           |
| 6/13/2018  | 0.14 (J)  |           | <0.2      | <0.2      | 0.2      | 0.15 (J)  |
| 10/10/2018 | 0.17 (J)  | 0.25      | 0.085 (J) | <0.2      | 0.23     | 0.11 (J)  |
| 3/26/2019  | 0.16      | 0.22      | 0.076 (J) | 0.072 (J) | 0.19 (J) | 0.088 (J) |
| 9/10/2019  | 0.098 (J) | 0.2       | 0.07 (J)  | 0.073 (J) | 0.15     | 0.083 (J) |
| 3/10/2020  | 0.086 (J) | 0.15      | 0.05 (J)  | 0.058 (J) | 0.18     | 0.084 (J) |
| 9/16/2020  |           | 0.26      | 0.076 (J) |           |          |           |
| 9/17/2020  | 0.15      |           |           | 0.083 (J) | 0.25     | 0.11      |
| 3/24/2021  | 0.27      | 0.27      | 0.11      | 0.092 (J) | 0.35     | 0.11      |
| 8/24/2021  |           |           | 0.095 (J) | 0.11      |          |           |
| 8/25/2021  | 0.097 (J) | 0.19      |           |           | 0.15     | 0.038 (J) |
| 2/22/2022  | 0.047 (J) | 0.093 (J) |           |           |          |           |
| 2/23/2022  |           |           | 0.075 (J) | 0.086 (J) | 0.22     | 0.05 (J)  |
| 8/2/2022   |           | 0.074 (J) |           |           |          |           |
| 8/3/2022   | 0.12      |           |           | 0.079 (J) | 0.2      |           |
| 8/4/2022   |           |           | 0.072 (J) |           |          | 0.087 (J) |
| 2/7/2023   |           | 0.25      |           | 0.076 (J) |          |           |
| 2/8/2023   | 0.11      |           | 0.074 (J) |           | 0.14     | 0.084 (J) |
| Mean       | 0.1851    | 0.218     | 0.1285    | 0.1262    | 0.2716   | 0.089     |
| Std. Dev.  | 0.08068   | 0.05902   | 0.05953   | 0.05951   | 0.1033   | 0.03324   |
| Upper Lim. | 0.2296    | 0.251     | 0.2       | 0.2       | 0.3286   | 0.1073    |
| Lower Lim. | 0.1406    | 0.1966    | 0.075     | 0.079     | 0.2146   | 0.07066   |

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-7      | MGWC-8      |
|------------|------------|-------------|-------------|
| 5/5/2016   |            | <0.001      | <0.001      |
| 6/21/2016  | 0.0001 (J) | 0.0003 (J)  | <0.001      |
| 8/15/2016  |            | <0.001      | <0.001      |
| 8/16/2016  | <0.001     |             |             |
| 9/28/2016  |            | <0.001      | <0.001      |
| 9/29/2016  | <0.001     |             |             |
| 11/16/2016 | <0.001     | <0.001      | <0.001      |
| 1/17/2017  |            | <0.001      | <0.001      |
| 1/18/2017  | <0.001     |             |             |
| 3/2/2017   | <0.001     | <0.001      | <0.001      |
| 4/18/2017  |            | <0.001      | <0.001      |
| 4/25/2017  | <0.001     |             |             |
| 7/13/2017  | <0.001     |             |             |
| 3/29/2018  | <0.001     | <0.001      |             |
| 3/30/2018  |            | <0.001      |             |
| 1/29/2019  | <0.001     | <0.001      | <0.001      |
| 1/28/2020  | <0.001     | <0.001      |             |
| 1/29/2020  |            |             | <0.001      |
| 3/10/2020  | <0.001     | <0.001      | <0.001      |
| 9/16/2020  | <0.001     |             |             |
| 9/17/2020  |            | <0.001      | <0.001      |
| 3/24/2021  | <0.001     | <0.001      | <0.001      |
| 8/25/2021  | <0.001     | 0.00019 (J) | 0.00022 (J) |
| 2/22/2022  | <0.001     |             |             |
| 2/23/2022  |            | <0.001      | <0.001      |
| 8/2/2022   | <0.001     |             |             |
| 8/3/2022   |            | 0.00021 (J) |             |
| 8/4/2022   |            |             | <0.001      |
| 2/7/2023   | <0.001     |             |             |
| 2/8/2023   |            | <0.001      | <0.001      |
| Mean       | 0.00095    | 0.0008722   | 0.0009567   |
| Std. Dev.  | 0.0002121  | 0.0002947   | 0.0001838   |
| Upper Lim. | 0.001      | 0.001       | 0.001       |
| Lower Lim. | 0.0001     | 0.0003      | 0.00022     |

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1     | MGWC-12    | MGWC-2     | MGWC-3     | MGWC-7   | MGWC-8     |
|------------|------------|------------|------------|------------|----------|------------|
| 5/5/2016   |            |            |            |            | 0.0586   | 0.0252 (J) |
| 5/6/2016   | 0.0128 (J) |            | <0.05      | 0.0113 (J) |          |            |
| 6/21/2016  | 0.0102 (J) | 0.0112 (J) | 0.0047 (J) | 0.0103 (J) | 0.122    | 0.0228 (J) |
| 8/15/2016  |            |            |            |            | 0.12     | 0.026      |
| 8/16/2016  | 0.012      | 0.014      | 0.0043 (J) | 0.01       |          |            |
| 9/28/2016  | 0.012      |            | 0.017      | 0.0048 (J) | 0.12     | 0.026      |
| 9/29/2016  |            |            |            | 0.01       |          |            |
| 11/16/2016 | 0.013      | 0.016      | 0.0058     | 0.014      | 0.13     | 0.031      |
| 1/17/2017  |            |            |            | 0.014      | 0.14     | 0.032      |
| 1/18/2017  |            | 0.015      | 0.0051     |            |          |            |
| 1/19/2017  | 0.011      |            |            |            |          |            |
| 3/2/2017   | 0.013      | 0.015      | 0.0061     | 0.013      | 0.13     | 0.031      |
| 4/18/2017  | 0.0097     |            |            | 0.01       | 0.11     | 0.023      |
| 4/19/2017  |            |            | 0.0042 (J) |            |          |            |
| 4/25/2017  |            | 0.013      |            |            |          |            |
| 7/13/2017  |            | 0.014      |            |            |          |            |
| 3/29/2018  | 0.017 (J)  | 0.032 (J)  |            |            | 0.17 (J) |            |
| 3/30/2018  |            |            | 0.008 (J)  | 0.017 (J)  |          | 0.058 (J)  |
| 6/12/2018  |            | 0.019      |            |            |          |            |
| 6/13/2018  | 0.0094     |            | 0.0054     | 0.011      | 0.12     | 0.035      |
| 10/10/2018 | 0.011      | 0.027      | 0.0055     | 0.013      | 0.13     | 0.046      |
| 1/29/2019  | 0.0109     | 0.0172     | 0.00537    | 0.0106     | 0.112    | 0.0361     |
| 3/26/2019  | 0.01       | 0.02       | 0.0051     | 0.012      | 0.12     | 0.043      |
| 9/10/2019  | 0.012      | 0.023      | 0.0074     | 0.015      | 0.11     | 0.042      |
| 1/28/2020  |            | 0.022      |            |            | 0.13     |            |
| 1/29/2020  | 0.0096     |            | 0.0059     | 0.012      |          | 0.037      |
| 3/10/2020  | <0.025     | 0.018      | 0.0068     | 0.014      | 0.11     | 0.028      |
| 9/16/2020  |            | 0.025      | 0.0055     |            |          |            |
| 9/17/2020  | 0.0086     |            |            | 0.012      | 0.11     | 0.039      |
| 3/24/2021  | 0.013      | 0.018      | 0.0066     | 0.013      | 0.13     | 0.011      |
| 8/24/2021  |            |            | 0.0062     | 0.012      |          |            |
| 8/25/2021  | 0.0096     | 0.017      |            |            | 0.12     | 0.037      |
| 2/22/2022  | 0.01       | 0.022      |            |            |          |            |
| 2/23/2022  |            |            | 0.0066     | 0.013      | 0.13     | 0.028      |
| 8/2/2022   |            | 0.026      |            |            |          |            |
| 8/3/2022   | 0.01       |            |            | 0.013      | 0.13     |            |
| 8/4/2022   |            |            | 0.0063     |            |          | 0.021      |
| 2/7/2023   |            | 0.024      |            | 0.014      |          |            |
| 2/8/2023   | 0.01       |            | 0.0065     |            | 0.14     | 0.012      |
| Mean       | 0.01124    | 0.01934    | 0.00669    | 0.01246    | 0.1224   | 0.03137    |
| Std. Dev.  | 0.001875   | 0.00524    | 0.0042     | 0.001808   | 0.01965  | 0.01089    |
| Upper Lim. | 0.01225    | 0.02215    | 0.0066     | 0.01343    | 0.13     | 0.03721    |
| Lower Lim. | 0.01023    | 0.01652    | 0.0051     | 0.01149    | 0.112    | 0.02552    |

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3    | MGWC-7    | MGWC-8      |
|------------|-------------|-------------|-----------|-----------|-------------|
| 5/5/2016   |             |             |           | <0.0002   | <0.0002     |
| 5/6/2016   |             | <0.0002     | <0.0002   |           |             |
| 6/21/2016  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/15/2016  |             |             |           | <0.0002   | 0.00015 (J) |
| 8/16/2016  | <0.0002     | 7.8E-05 (J) | <0.0002   |           |             |
| 9/28/2016  |             |             |           | <0.0002   | <0.0002     |
| 9/29/2016  | <0.0002     | <0.0002     | <0.0002   |           |             |
| 11/16/2016 | 8.6E-05 (J) | 0.0001 (J)  | 7E-05 (J) | 8E-05 (J) | 0.00021     |
| 1/17/2017  |             |             | <0.0002   | <0.0002   | 7.6E-05 (J) |
| 1/18/2017  | <0.0002     | <0.0002     |           |           |             |
| 3/2/2017   | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 4/18/2017  |             |             | <0.0002   | <0.0002   | 0.00018 (J) |
| 4/19/2017  |             | <0.0002     |           |           |             |
| 4/25/2017  | <0.0002     |             |           |           |             |
| 7/13/2017  | <0.0002     |             |           |           |             |
| 3/29/2018  | 7.4E-05 (J) |             |           | <0.0002   |             |
| 3/30/2018  |             | <0.0002     | <0.0002   |           | 0.00013 (J) |
| 6/12/2018  | <0.0002     |             |           |           |             |
| 6/13/2018  |             | <0.0002     | <0.0002   | <0.0002   | 0.00074     |
| 10/10/2018 | <0.0002     | <0.0002     | <0.0002   | <0.0002   | 0.00013 (J) |
| 1/29/2019  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 1/28/2020  | <0.0002     |             |           | <0.0002   |             |
| 1/29/2020  |             | <0.0002     | <0.0002   |           | 0.00012 (J) |
| 3/10/2020  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 9/16/2020  | <0.0002     | <0.0002     |           |           |             |
| 9/17/2020  |             |             | <0.0002   | <0.0002   | 0.00014 (J) |
| 3/24/2021  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/24/2021  |             | <0.0002     | <0.0002   |           |             |
| 8/25/2021  | <0.0002     |             |           | <0.0002   | 0.0041      |
| 10/26/2021 |             |             |           |           | <0.0002     |
| 2/22/2022  | <0.0002     |             |           |           |             |
| 2/23/2022  |             | <0.0002     | <0.0002   | <0.0002   | 0.00028     |
| 8/2/2022   | <0.0002     |             |           |           |             |
| 8/3/2022   |             |             | <0.0002   | <0.0002   |             |
| 8/4/2022   |             | <0.0002     |           |           | 0.00068     |
| 2/7/2023   | <0.0002     |             | <0.0002   |           |             |
| 2/8/2023   |             | <0.0002     |           | <0.0002   | 0.00026     |
| Mean       | 0.000188    | 0.0001889   | 0.0001935 | 0.000194  | 0.0004189   |
| Std. Dev.  | 3.699E-05   | 3.435E-05   | 2.907E-05 | 2.683E-05 | 0.0008595   |
| Upper Lim. | 0.0002      | 0.0002      | 0.0002    | 0.0002    | 0.00026     |
| Lower Lim. | 8.6E-05     | 0.0001      | 7E-05     | 8E-05     | 0.00014     |

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-7      | MGWC-8     |
|------------|-------------|-------------|-------------|------------|
| 5/5/2016   |             |             | 0.00351 (J) | <0.015     |
| 5/6/2016   | 0.0021 (J)  |             |             |            |
| 6/21/2016  | 0.002 (J)   | 0.002 (J)   | <0.015      | <0.015     |
| 8/15/2016  |             |             | <0.015      | <0.015     |
| 8/16/2016  | 0.0019 (J)  | 0.0012 (J)  |             |            |
| 9/28/2016  | 0.0018 (J)  |             | <0.015      | <0.015     |
| 9/29/2016  |             | 0.0014 (J)  |             |            |
| 11/16/2016 | <0.075      | <0.015      | <0.015      | <0.015     |
| 1/17/2017  |             |             | <0.015      | <0.015     |
| 1/18/2017  |             | <0.015      |             |            |
| 1/19/2017  | 0.0011 (J)  |             |             |            |
| 3/2/2017   | 0.0012 (J)  | <0.015      | <0.015      | <0.015     |
| 4/18/2017  | 0.0013 (J)  |             | <0.015      | 0.0037 (J) |
| 4/25/2017  |             | <0.015      |             |            |
| 7/13/2017  |             | <0.015      |             |            |
| 3/29/2018  | 0.0017 (J)  | <0.015      | <0.015      |            |
| 3/30/2018  |             |             |             | <0.015     |
| 6/12/2018  |             | <0.015      |             |            |
| 6/13/2018  | 0.00087 (J) |             | <0.015      | <0.015     |
| 10/10/2018 | <0.075      | <0.015      | <0.015      | <0.015     |
| 1/29/2019  | <0.075      | <0.015      | <0.015      | <0.015     |
| 1/28/2020  |             | <0.015      | <0.015      |            |
| 1/29/2020  | 0.0015 (J)  |             |             | <0.015     |
| 3/10/2020  | <0.075      | <0.015      | <0.015      | <0.015     |
| 9/16/2020  |             | 0.0024 (J)  |             |            |
| 9/17/2020  | 0.0012 (J)  |             | <0.015      | <0.015     |
| 3/24/2021  | 0.0029 (J)  | <0.015      | <0.015      | <0.015     |
| 8/25/2021  | 0.00088 (J) | <0.015      | <0.015      | <0.015     |
| 2/22/2022  | 0.0014 (J)  | 0.00064 (J) |             |            |
| 2/23/2022  |             |             | <0.015      | <0.015     |
| 8/2/2022   |             | 0.00093 (J) |             |            |
| 8/3/2022   | 0.0011 (J)  |             | <0.015      |            |
| 8/4/2022   |             |             |             | <0.015     |
| 2/7/2023   |             | <0.015      |             |            |
| 2/8/2023   | 0.0012 (J)  |             | <0.015      | <0.015     |
| Mean       | 0.01621     | 0.01093     | 0.01443     | 0.01443    |
| Std. Dev.  | 0.03016     | 0.00639     | 0.002569    | 0.002527   |
| Upper Lim. | 0.0029      | 0.015       | 0.015       | 0.015      |
| Lower Lim. | 0.0012      | 0.002       | 0.00351     | 0.0037     |

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1     | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |            |             |             |             | <0.005      | <0.005      |
| 5/6/2016   | <0.005     |             | <0.005      | <0.005      |             |             |
| 6/21/2016  | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/15/2016  |            |             |             |             | <0.005      | 0.00033 (J) |
| 8/16/2016  | <0.005     | <0.005      | <0.005      | <0.005      |             |             |
| 9/28/2016  | <0.005     |             | <0.005      | <0.005      | <0.005      | 0.00038 (J) |
| 9/29/2016  |            | <0.005      | <0.005      | <0.005      |             |             |
| 11/16/2016 | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/17/2017  |            |             |             | <0.005      | <0.005      | <0.005      |
| 1/18/2017  |            | <0.005      | <0.005      |             |             |             |
| 1/19/2017  | <0.005     |             |             |             |             |             |
| 3/2/2017   | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 4/18/2017  | <0.005     |             |             | <0.005      | <0.005      | 0.0024      |
| 4/19/2017  |            |             | <0.005      |             |             |             |
| 4/25/2017  |            |             | <0.005      |             |             |             |
| 7/13/2017  |            |             | <0.005      |             |             |             |
| 3/29/2018  | 0.0005 (J) | 0.00027 (J) |             |             | 0.00026 (J) |             |
| 3/30/2018  |            |             | 0.00045 (J) | 0.00044 (J) |             | 0.00027 (J) |
| 6/12/2018  |            | <0.005      |             |             |             |             |
| 6/13/2018  | <0.005     |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 10/10/2018 | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/29/2019  | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/28/2020  |            | <0.005      |             |             | <0.005      |             |
| 1/29/2020  | <0.005     |             | <0.005      | <0.005      |             | <0.005      |
| 2/22/2022  | <0.005     | <0.005      |             |             |             |             |
| 2/23/2022  |            |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/2/2022   |            | <0.005      |             |             |             |             |
| 8/3/2022   | <0.005     |             |             | <0.005      | <0.005      |             |
| 8/4/2022   |            |             | <0.005      |             |             | <0.005      |
| 2/7/2023   |            | <0.005      |             | <0.005      |             |             |
| 2/8/2023   | <0.005     |             | <0.005      |             | <0.005      | <0.005      |
| Mean       | 0.004719   | 0.004704    | 0.004716    | 0.004715    | 0.004704    | 0.003961    |
| Std. Dev.  | 0.001125   | 0.001182    | 0.001137    | 0.001114    | 0.001185    | 0.001915    |
| Upper Lim. | 0.005      | 0.005       | 0.005       | 0.005       | 0.005       | 0.005       |
| Lower Lim. | 0.0005     | 0.00027     | 0.00045     | 0.00044     | 0.00026     | 0.00038     |

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/23/2023 12:13 AM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             |             | <0.001      |
| 5/6/2016   | <0.001      |             | <0.001      | <0.001      |             |
| 6/21/2016  | 9E-05 (J)   | <0.001      | <0.001      | <0.001      | 0.0001 (J)  |
| 8/15/2016  |             |             |             |             | 0.00016 (J) |
| 8/16/2016  | <0.001      | <0.001      | <0.001      | <0.001      |             |
| 9/28/2016  | <0.001      |             |             |             | 0.00014 (J) |
| 9/29/2016  |             | <0.001      | <0.001      | <0.001      |             |
| 11/16/2016 | <0.001      | <0.001      | <0.001      | <0.001      | 9E-05 (J)   |
| 1/17/2017  |             |             |             | <0.001      | 0.00016 (J) |
| 1/18/2017  |             | <0.001      | <0.001      |             |             |
| 1/19/2017  | <0.001      |             |             |             |             |
| 3/2/2017   | <0.001      | <0.001      | <0.001      | <0.001      | 0.00018 (J) |
| 4/18/2017  | 9.5E-05 (J) |             |             | <0.001      | 0.00019 (J) |
| 4/19/2017  |             |             | <0.001      |             |             |
| 4/25/2017  |             | <0.001      |             |             |             |
| 7/13/2017  |             | <0.001      |             |             |             |
| 3/29/2018  | 0.00014 (J) | <0.001      |             |             |             |
| 3/30/2018  |             |             | <0.001      | <0.001      | 0.00027 (J) |
| 6/12/2018  |             | <0.001      |             |             |             |
| 6/13/2018  | <0.001      |             | <0.001      | <0.001      | 0.00027 (J) |
| 10/10/2018 | <0.001      | <0.001      | <0.001      | <0.001      | 0.00025 (J) |
| 1/29/2019  | <0.001      | <0.001      | <0.001      | <0.001      | <0.001      |
| 1/28/2020  |             | <0.001      |             |             |             |
| 1/29/2020  | 0.00032 (J) |             | 0.00021 (J) | 0.00037 (J) | 0.00042 (J) |
| 3/10/2020  | <0.001      | 0.00015 (J) | <0.001      | 0.00016 (J) | 0.00025 (J) |
| 9/16/2020  |             | 0.00027 (J) | <0.001      |             |             |
| 9/17/2020  | 0.00016 (J) |             |             | <0.001      | 0.00031 (J) |
| 3/24/2021  | <0.001      | <0.001      | <0.001      | <0.001      | <0.001      |
| 8/24/2021  |             |             | <0.001      | <0.001      |             |
| 8/25/2021  | <0.001      | <0.001      |             |             | 0.0004 (J)  |
| 2/22/2022  | <0.001      | <0.001      |             |             |             |
| 2/23/2022  |             |             | <0.001      | <0.001      | <0.001      |
| 8/2/2022   |             | <0.001      |             |             |             |
| 8/3/2022   | <0.001      |             |             | <0.001      |             |
| 8/4/2022   |             |             | <0.001      |             | <0.001      |
| 2/7/2023   |             | <0.001      |             | <0.001      |             |
| 2/8/2023   | <0.001      |             | <0.001      |             | <0.001      |
| Mean       | 0.0007903   | 0.000921    | 0.0009605   | 0.0009265   | 0.0004595   |
| Std. Dev.  | 0.0003752   | 0.0002439   | 0.0001766   | 0.0002288   | 0.0003726   |
| Upper Lim. | 0.001       | 0.001       | 0.001       | 0.001       | 0.0002436   |
| Lower Lim. | 0.00032     | 0.00027     | 0.00021     | 0.00037     | 0.0001385   |

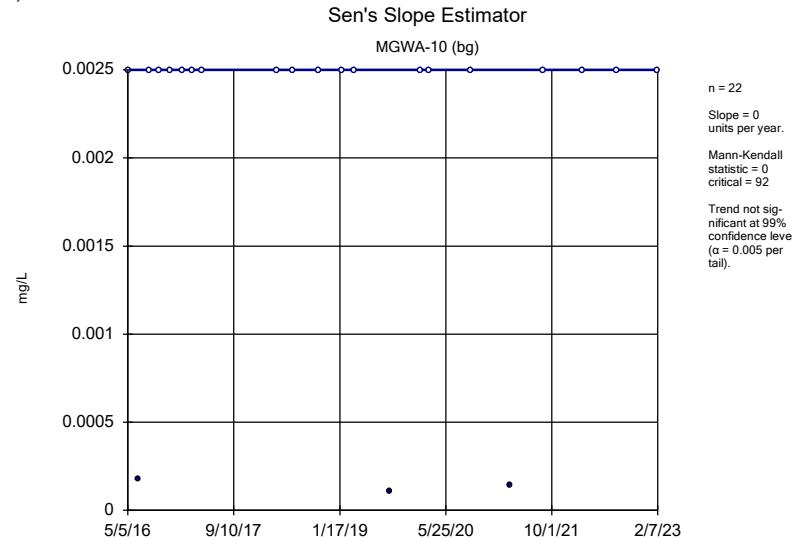
**FIGURE I.**

## Appendix IV Trend Tests - All Results (No Significant)

Plant McIntosh   Client: Southern Company   Data: McIntosh Ash Pond   Printed 3/23/2023, 12:49 AM

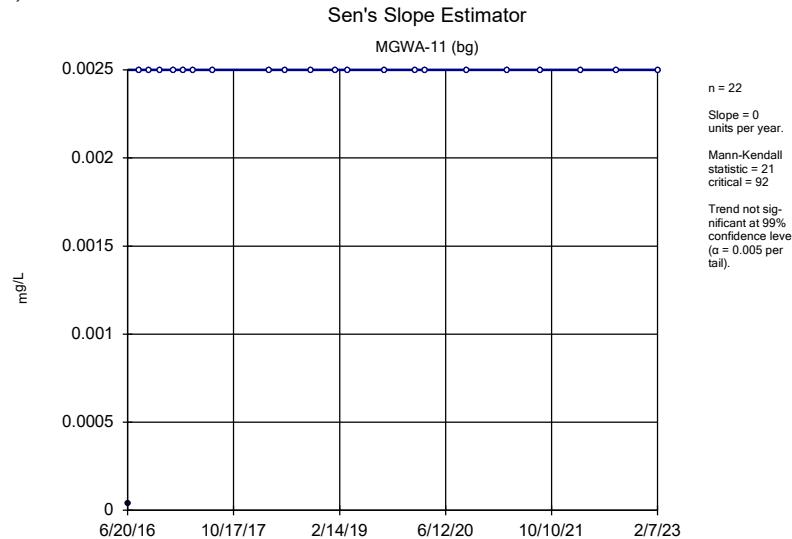
| <u>Constituent</u> | <u>Well</u>  | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)      | MGWA-10 (bg) | 0            | 0            | 92              | No          | 22       | 86.36       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-11 (bg) | 0            | 21           | 92              | No          | 22       | 95.45       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-5 (bg)  | 0            | 18           | 87              | No          | 21       | 95.24       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-6 (bg)  | 0            | -34          | -92             | No          | 22       | 40.91       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWA-6A (bg) | 0.00003862   | 4            | 34              | No          | 11       | 18.18       | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWC-7       | -0.0005723   | -79          | -92             | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Cobalt (mg/L)      | MGWC-8       | 0.003015     | 88           | 92              | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-10 (bg) | 0.00005878   | 14           | 92              | No          | 22       | 4.545       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-11 (bg) | 0.0008379    | 42           | 92              | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-5 (bg)  | 0.0003427    | 57           | 92              | No          | 22       | 4.545       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-6 (bg)  | 0            | 5            | 92              | No          | 22       | 95.45       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWA-6A (bg) | -0.0001001   | -28          | -34             | No          | 11       | 63.64       | n/a              | n/a          | 0.01         | NP            |
| Lithium (mg/L)     | MGWC-7       | 0            | 27           | 92              | No          | 22       | 0           | n/a              | n/a          | 0.01         | NP            |

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



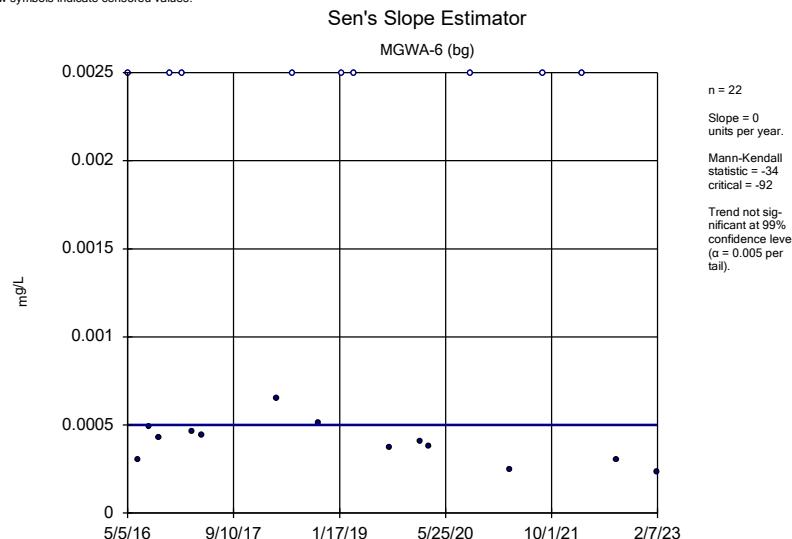
Constituent: Cobalt Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



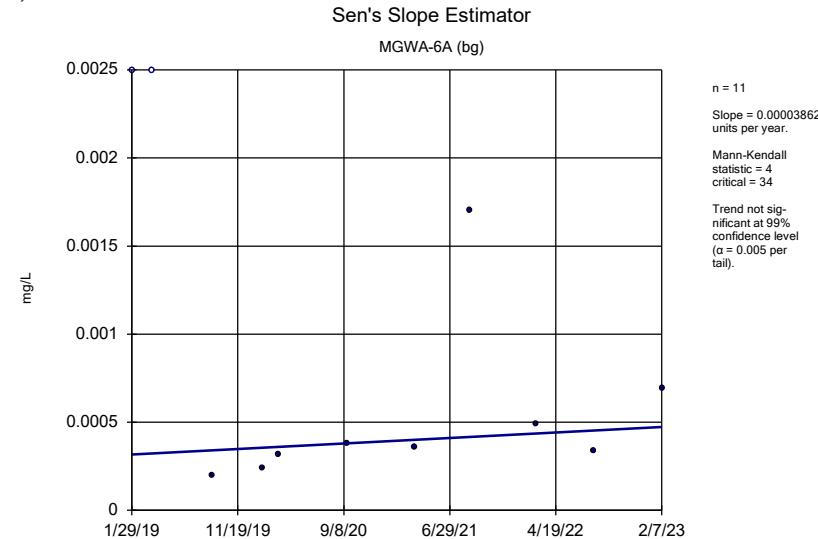
Constituent: Cobalt Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



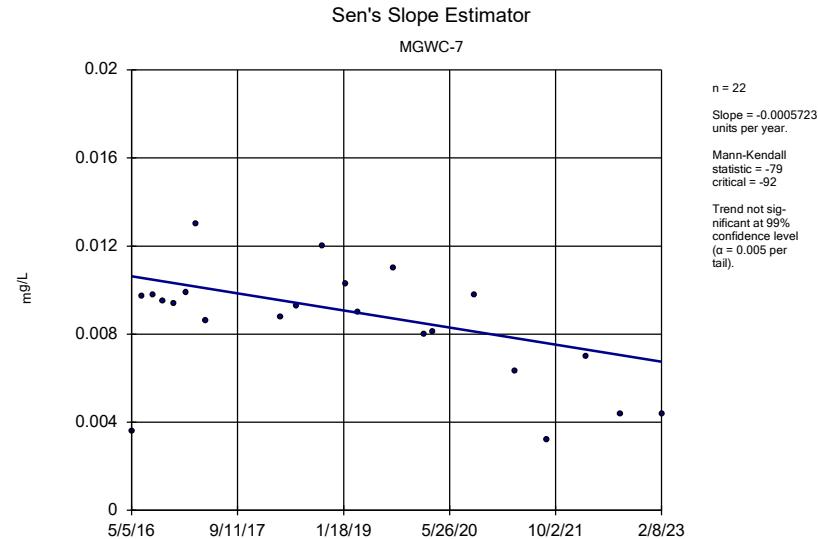
Constituent: Cobalt Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



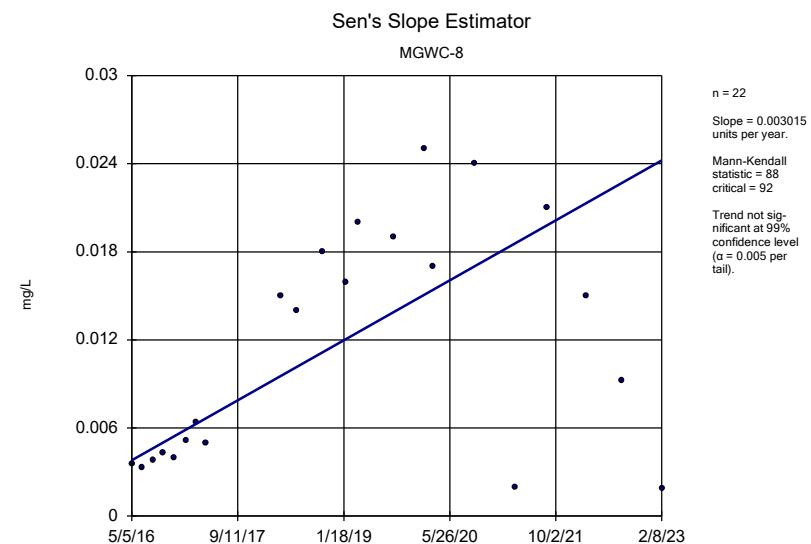
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG



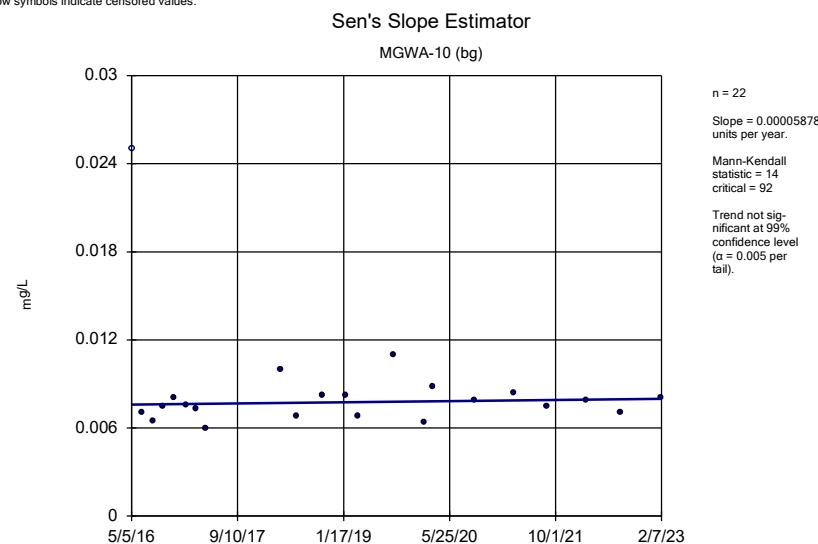
Constituent: Cobalt Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG

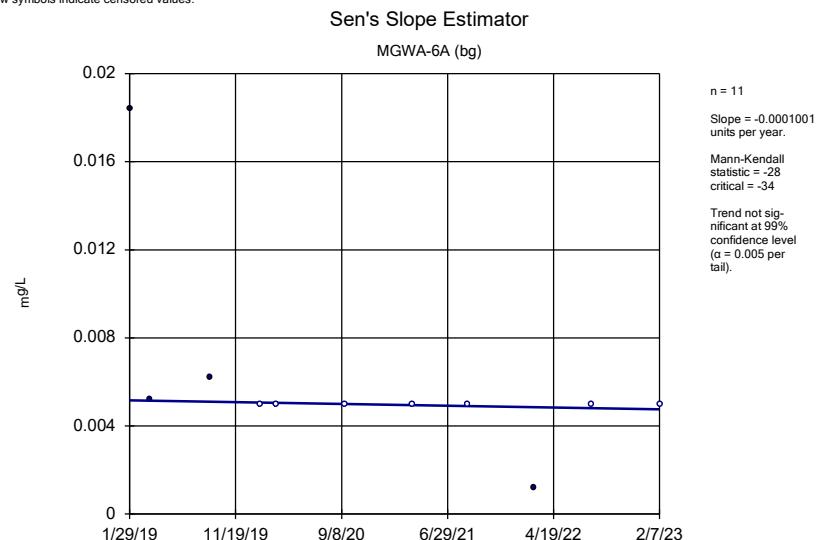
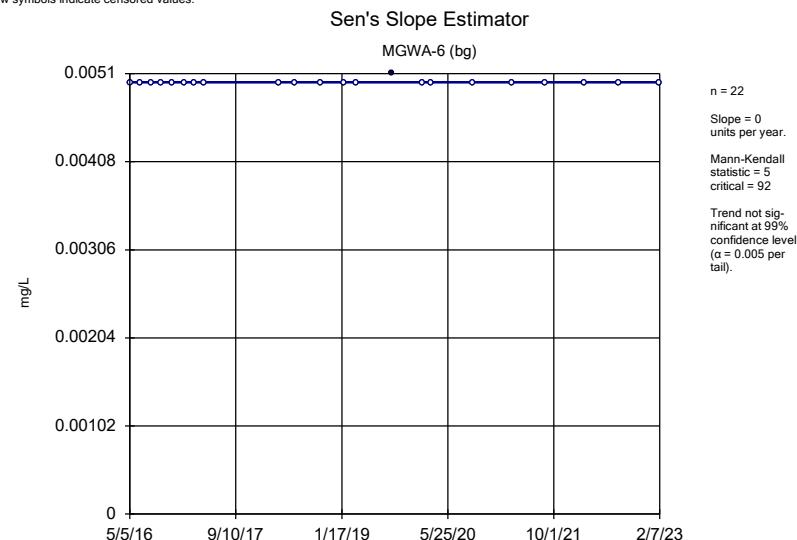
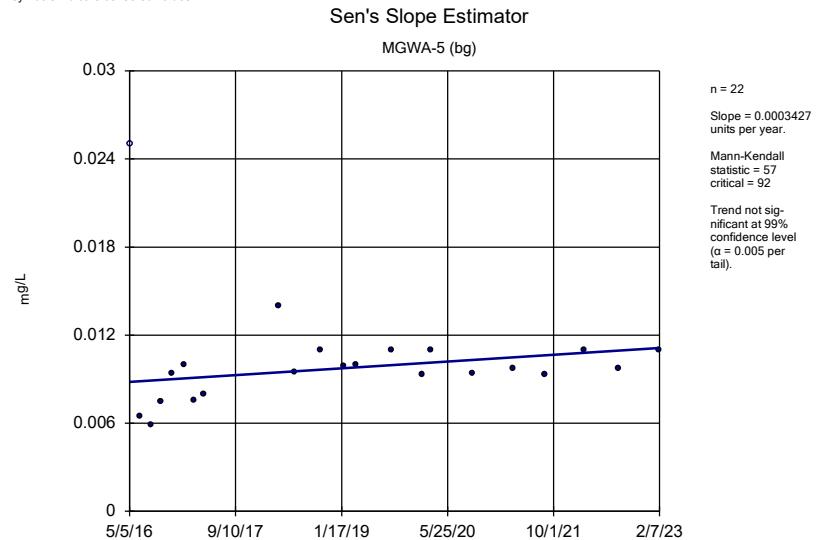
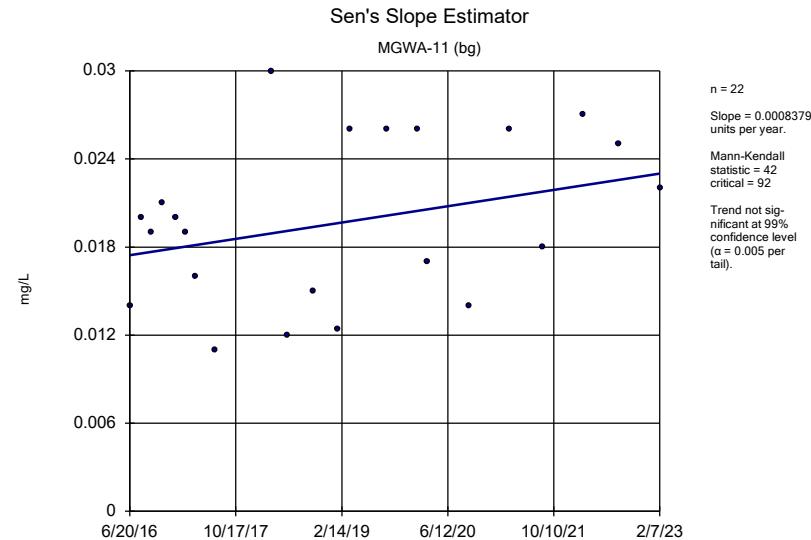


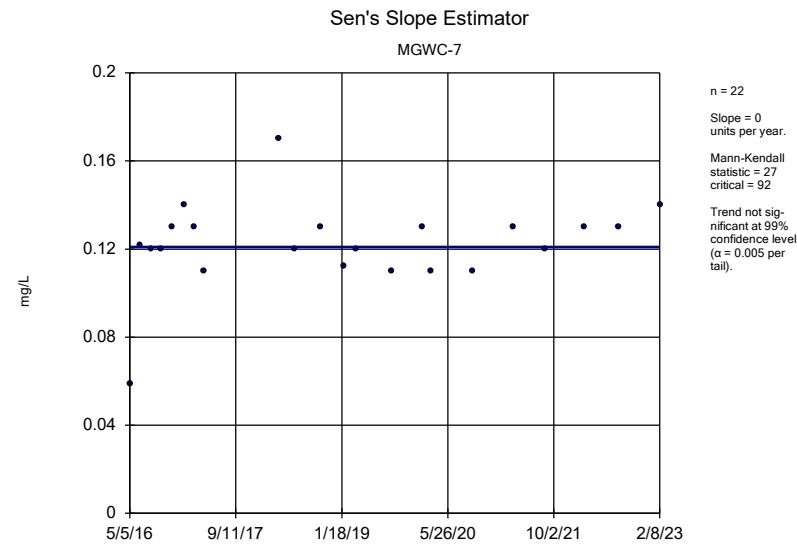
Constituent: Cobalt Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Sanitas™ v.9.6.37 , UG  
Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 3/23/2023 12:42 AM View: Appendix IV - Trend Test  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond





Constituent: Lithium Analysis Run 3/23/2023 12:43 AM View: Appendix IV - Trend Test

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## APPENDIX B

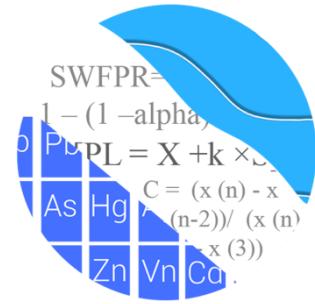
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*Statistical Analysis Reports  
July 2023 Monitoring Event*

GROUNDWATER STATS  
CONSULTING

January 31, 2024

Southern Company Services  
Attn: Ms. Lauren Hartley  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308



Re: Plant McIntosh Ash Pond 1 (AP-1)  
Statistical Analysis August 2023

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2023 Semi-Annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant McIntosh AP-1. 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 the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
- **Downgradient wells:** MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient 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 the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Both intrawell and interwell prediction limits, combined with a 1-of-2 resample plan, were originally recommended. The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. 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.

### **Summary of Statistical Methods – Appendix III Parameters**

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. While this was not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

### **Statistical Analysis of Appendix III Parameters – August 2023**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. When values in background have been flagged as outliers, they may be seen in a lighter font and as a disconnected symbol on the graphs. No additional values were flagged as outliers and a summary of flagged values follows this report (Figure C).

#### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When 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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Boron: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Calcium: MGWC-3 and MGWC-8
- Chloride: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Fluoride: MGWC-7 and MGWC-12
- Sulfate: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8

### 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 to identify whether similar patterns exist upgradient of the site which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

#### Increasing

- Boron: MGWC-7 and MGWC-8
- Calcium: MGWC-8
- Chloride: MGWC-8
- Sulfate: MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-8

#### Decreasing

- Boron: MGWA-6 (upgradient) and MGWC-2
- Calcium: MGWA-10 (upgradient)
- Chloride: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-6A (upgradient), MGWC-2, and MGWC-7
- Fluoride: MGWC-7
- Sulfate: MGWA-5 (upgradient), MGWA-6 (upgradient), MGW-10 (upgradient), and MGWC-2
- TDS: MGWC-2

### **Statistical Methods – Appendix IV Parameters**

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits)

or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

## **Statistical Analysis of Appendix IV Parameters – August 2023**

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. 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.

During previous analyses, high concentrations from May 2016 through April 2017 for arsenic at upgradient well MGWA-6 were deselected prior to calculating an interwell upper tolerance limit. These historical measurements were considerably higher than more recent measurements; and this step results in a more conservative (i.e., lower) statistical limit from a regulatory perspective. Additionally, the August 2022 observation for cobalt in upgradient well MGWA-5 was previously flagged as an outlier in order to construct a conservative interwell tolerance limit. This measurement was re-evaluated during this analysis and remains flagged. All background data will be re-evaluated for upgradient wells during the next analysis. A summary of these background data ranges follows this letter. No additional values were flagged as outliers and a summary of previously flagged outliers follows this report (Figure C).

### Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through the current sample event for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for combined radium. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium,

and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

#### Confidence Intervals

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well using all available data through August 2023 (Figure H).

The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the largest and smallest order statistics depending on the sample size as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence intervals follow this letter and exceedances were identified for the following well/constituent pairs:

- Cobalt: MGWC-7 and MGWC-8
- Lithium: MGWC-7

#### Trend Test Evaluation – Appendix IV

When confidence interval 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 95% confidence level (Figure I). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. A statistically significant decreasing trend was identified for cobalt at MGWC-7.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant McIntosh AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina Rayner  
Senior Statistician



Andrew Collins  
Project Manager

## 100% Non-Detects: Appendix IV Downgradient

Analysis Run 9/25/2023 4:19 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

---

Antimony (mg/L)  
MGWC-1, MGWC-2, MGWC-8

Beryllium (mg/L)  
MGWC-12, MGWC-2, MGWC-7

Cadmium (mg/L)  
MGWC-12, MGWC-3

Lead (mg/L)  
MGWC-1, MGWC-2, MGWC-3

Mercury (mg/L)  
MGWC-1

Molybdenum (mg/L)  
MGWC-2, MGWC-3

Thallium (mg/L)  
MGWC-7

## Date Ranges

Page 1

Date: 9/16/2023 10:28 AM

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Arsenic (mg/L)

MGWA-6 overall:3/29/2018-8/1/2023

## Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 8/1/2023    | 1.6            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 8/2/2023    | 1.8            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 8/1/2023    | 0.65           | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 8/2/2023    | 2.2            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 8/1/2023    | 4.3            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)     | MGWC-3      | 110               | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-8      | 110               | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Chloride (mg/L)    | MGWC-1      | 9.28              | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.28              | n/a               | 8/2/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.28              | n/a               | 8/1/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.28              | n/a               | 8/2/2023    | 11             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.28              | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 8/2/2023    | 0.25           | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-7      | 0.19              | n/a               | 8/2/2023    | 0.2            | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.27             | n/a               | 8/1/2023    | 140            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.27             | n/a               | 8/2/2023    | 150            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.27             | n/a               | 8/1/2023    | 110            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.27             | n/a               | 8/2/2023    | 200            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.27             | n/a               | 8/1/2023    | 280            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 354.4             | n/a               | 8/1/2023    | 450            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 354.4             | n/a               | 8/2/2023    | 520            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 354.4             | n/a               | 8/1/2023    | 420            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 354.4             | n/a               | 8/2/2023    | 410            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 354.4             | n/a               | 8/1/2023    | 570            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

## Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 8/1/2023    | 1.6            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-12     | 0.18              | n/a               | 8/2/2023    | 0.062J         | No          | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 8/2/2023    | 1.8            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 8/1/2023    | 0.65           | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 8/2/2023    | 2.2            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 8/1/2023    | 4.3            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)     | MGWC-1      | 110               | n/a               | 8/1/2023    | 110            | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-12     | 110               | n/a               | 8/2/2023    | 31             | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-2      | 110               | n/a               | 8/2/2023    | 100            | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-3      | 110               | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-7      | 110               | n/a               | 8/2/2023    | 57             | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-8      | 110               | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Chloride (mg/L)    | MGWC-1      | 9.28              | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-12     | 9.28              | n/a               | 8/2/2023    | 4.5            | No          | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.28              | n/a               | 8/2/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.28              | n/a               | 8/1/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.28              | n/a               | 8/2/2023    | 11             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.28              | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-1      | 0.19              | n/a               | 8/1/2023    | 0.15           | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 8/2/2023    | 0.25           | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-2      | 0.19              | n/a               | 8/2/2023    | 0.087J         | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-3      | 0.19              | n/a               | 8/1/2023    | 0.1            | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-7      | 0.19              | n/a               | 8/2/2023    | 0.2            | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-8      | 0.19              | n/a               | 8/1/2023    | 0.11           | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-1      | 8.12              | 5                 | 8/1/2023    | 7.3            | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-12     | 8.12              | 5                 | 8/2/2023    | 7.2            | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-2      | 8.12              | 5                 | 8/2/2023    | 7.31           | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-3      | 8.12              | 5                 | 8/1/2023    | 7.09           | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-7      | 8.12              | 5                 | 8/2/2023    | 6.9            | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-8      | 8.12              | 5                 | 8/1/2023    | 6.77           | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.27             | n/a               | 8/1/2023    | 140            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-12     | 17.27             | n/a               | 8/2/2023    | 4.6            | No          | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.27             | n/a               | 8/2/2023    | 150            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.27             | n/a               | 8/1/2023    | 110            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.27             | n/a               | 8/2/2023    | 200            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.27             | n/a               | 8/1/2023    | 280            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 354.4             | n/a               | 8/1/2023    | 450            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-12     | 354.4             | n/a               | 8/2/2023    | 200            | No          | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 354.4             | n/a               | 8/2/2023    | 520            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 354.4             | n/a               | 8/1/2023    | 420            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 354.4             | n/a               | 8/2/2023    | 410            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 354.4             | n/a               | 8/1/2023    | 570            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

### Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:47 PM

| <u>Constituent</u> | <u>Well</u>  | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)       | MGWA-6 (bg)  | -0.01744     | -146         | -87             | Yes         | 21       | 19.05       | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-2       | -0.2577      | -157         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-7       | 0.1234       | 161          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-8       | 0.5334       | 94           | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)     | MGWA-10 (bg) | -0.3721      | -120         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)     | MGWC-8       | 12.82        | 162          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-5 (bg)  | -0.1829      | -118         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6 (bg)  | -1.104       | -180         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6A (bg) | -0.3253      | -41          | -34             | Yes         | 11       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-2       | -1.414       | -177         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-7       | -0.5069      | -131         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-8       | 0.4189       | 113          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)    | MGWC-7       | -0.03419     | -138         | -92             | Yes         | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-10 (bg) | -0.1441      | -110         | -87             | Yes         | 21       | 33.33       | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-5 (bg)  | -0.655       | -144         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-6 (bg)  | -2.751       | -168         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-2       | -22.11       | -180         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-3       | 6.234        | 139          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-7       | 5.303        | 102          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-8       | 36.82        | 106          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-2       | -31.09       | -148         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-8       | 64.38        | 114          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |

### Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:47 PM

| <u>Constituent</u>     | <u>Well</u>         | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u>  | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------------|-----------------|--------------|-----------------|-------------|-----------|--------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)           | MGWA-10 (bg)        | 0               | 46           | 87              | No          | 21        | 66.67        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-11 (bg)        | 0               | 7            | 87              | No          | 21        | 57.14        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-5 (bg)         | 0               | 0            | 87              | No          | 21        | 80.95        | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWA-6 (bg)</b>  | <b>-0.01744</b> | <b>-146</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>19.05</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWA-6A (bg)        | 0               | -15          | -34             | No          | 11        | 63.64        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWC-1              | 0.1222          | 86           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-2</b>       | <b>-0.2577</b>  | <b>-157</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWC-3              | -0.05072        | -47          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-7</b>       | <b>0.1234</b>   | <b>161</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Boron (mg/L)</b>    | <b>MGWC-8</b>       | <b>0.5334</b>   | <b>94</b>    | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Calcium (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.3721</b>  | <b>-120</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Calcium (mg/L)         | MGWA-11 (bg)        | 0.1578          | 20           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-5 (bg)         | -0.1849         | -41          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-6 (bg)         | 0               | 52           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-6A (bg)        | 2.58            | 22           | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWC-3              | 2.033           | 83           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium (mg/L)</b>  | <b>MGWC-8</b>       | <b>12.82</b>    | <b>162</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-10 (bg)        | 0               | 15           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-11 (bg)        | -0.05994        | -35          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWA-5 (bg)</b>  | <b>-0.1829</b>  | <b>-118</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWA-6 (bg)</b>  | <b>-1.104</b>   | <b>-180</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWA-6A (bg)</b> | <b>-0.3253</b>  | <b>-41</b>   | <b>-34</b>      | <b>Yes</b>  | <b>11</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-1              | 0               | -63          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-2</b>       | <b>-1.414</b>   | <b>-177</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-3              | 0               | 18           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.5069</b>  | <b>-131</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWC-8</b>       | <b>0.4189</b>   | <b>113</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Fluoride (mg/L)        | MGWA-10 (bg)        | 0               | -32          | -92             | No          | 22        | 68.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-11 (bg)        | -0.003001       | -22          | -92             | No          | 22        | 9.091        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-5 (bg)         | -0.003922       | -64          | -92             | No          | 22        | 18.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6 (bg)         | -0.004687       | -62          | -92             | No          | 22        | 27.27        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6A (bg)        | 0.001044        | 3            | 34              | No          | 11        | 18.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWC-12             | -0.01043        | -62          | -92             | No          | 22        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Fluoride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.03419</b> | <b>-138</b>  | <b>-92</b>      | <b>Yes</b>  | <b>22</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.1441</b>  | <b>-110</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>33.33</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-11 (bg)        | 0.115           | 46           | 87              | No          | 21        | 28.57        | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-5 (bg)</b>  | <b>-0.655</b>   | <b>-144</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-6 (bg)</b>  | <b>-2.751</b>   | <b>-168</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-6A (bg)        | 0.1028          | 4            | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWC-1              | 2.229           | 51           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-2</b>       | <b>-22.11</b>   | <b>-180</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-3</b>       | <b>6.234</b>    | <b>139</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-7</b>       | <b>5.303</b>    | <b>102</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-8</b>       | <b>36.82</b>    | <b>106</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWA-10 (bg)        | -2.607          | -41          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-11 (bg)        | 5.017           | 46           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-5 (bg)         | 1.841           | 26           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6 (bg)         | 0               | -18          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6A (bg)        | 5.112           | 6            | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-1              | 11.69           | 56           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-2</b>       | <b>-31.09</b>   | <b>-148</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWC-3              | 6.863           | 70           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-7              | 11.6            | 85           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-8</b>       | <b>64.38</b>    | <b>114</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |

## Upper Tolerance Limits

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/25/2023, 4:16 PM

| <u>Constituent</u>                | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | n/a         | 0.002             | n/a         | n/a            | n/a         | 86          | 91.86       | n/a              | 0.01214      | NP Inter(NDs)       |
| Arsenic (mg/L)                    | n/a         | 0.014             | n/a         | n/a            | n/a         | 96          | 36.46       | n/a              | 0.007269     | NP Inter(normality) |
| Barium (mg/L)                     | n/a         | 0.13              | n/a         | n/a            | n/a         | 104         | 0           | n/a              | 0.004822     | NP Inter(normality) |
| Beryllium (mg/L)                  | n/a         | 0.0025            | n/a         | n/a            | n/a         | 94          | 94.68       | n/a              | 0.008054     | NP Inter(NDs)       |
| Cadmium (mg/L)                    | n/a         | 0.0025            | n/a         | n/a            | n/a         | 104         | 99.04       | n/a              | 0.004822     | NP Inter(NDs)       |
| Chromium (mg/L)                   | n/a         | 0.0063            | n/a         | n/a            | n/a         | 94          | 72.34       | n/a              | 0.008054     | NP Inter(NDs)       |
| Cobalt (mg/L)                     | n/a         | 0.0025            | n/a         | n/a            | n/a         | 103         | 72.82       | n/a              | 0.005076     | NP Inter(NDs)       |
| Combined Radium 226 + 228 (pCi/L) | n/a         | 1.234             | n/a         | n/a            | n/a         | 105         | 0           | No               | 0.05         | Inter               |
| Fluoride (mg/L)                   | n/a         | 0.19              | n/a         | n/a            | n/a         | 99          | 29.29       | n/a              | 0.006232     | NP Inter(normality) |
| Lead (mg/L)                       | n/a         | 0.001             | n/a         | n/a            | n/a         | 86          | 94.19       | n/a              | 0.01214      | NP Inter(NDs)       |
| Lithium (mg/L)                    | n/a         | 0.03              | n/a         | n/a            | n/a         | 104         | 30.77       | n/a              | 0.004822     | NP Inter(normality) |
| Mercury (mg/L)                    | n/a         | 0.0002            | n/a         | n/a            | n/a         | 94          | 96.81       | n/a              | 0.008054     | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | n/a         | 0.015             | n/a         | n/a            | n/a         | 94          | 63.83       | n/a              | 0.008054     | NP Inter(NDs)       |
| Selenium (mg/L)                   | n/a         | 0.005             | n/a         | n/a            | n/a         | 74          | 91.89       | n/a              | 0.02247      | NP Inter(NDs)       |
| Thallium (mg/L)                   | n/a         | 0.001             | n/a         | n/a            | n/a         | 94          | 84.04       | n/a              | 0.008054     | NP Inter(NDs)       |

| PLANT MCINTOSH AP 1 GWPS       |       |                    |                  |       |
|--------------------------------|-------|--------------------|------------------|-------|
| Constituent Name               | MCL   | CCR-Rule Specified | Background Limit | GWPS  |
| Antimony, Total (mg/L)         | 0.006 |                    | 0.002            | 0.006 |
| Arsenic, Total (mg/L)          | 0.01  |                    | 0.014            | 0.014 |
| Barium, Total (mg/L)           | 2     |                    | 0.13             | 2     |
| Beryllium, Total (mg/L)        | 0.004 |                    | 0.0025           | 0.004 |
| Cadmium, Total (mg/L)          | 0.005 |                    | 0.0025           | 0.005 |
| Chromium, Total (mg/L)         | 0.1   |                    | 0.0063           | 0.1   |
| Cobalt, Total (mg/L)           | n/a   | 0.006              | 0.0025           | 0.006 |
| Combined Radium, Total (pCi/L) | 5     |                    | 1.23             | 5     |
| Fluoride, Total (mg/L)         | 4     |                    | 0.19             | 4     |
| Lead, Total (mg/L)             | n/a   | 0.015              | 0.001            | 0.015 |
| Lithium, Total (mg/L)          | n/a   | 0.04               | 0.03             | 0.04  |
| Mercury, Total (mg/L)          | 0.002 |                    | 0.0002           | 0.002 |
| Molybdenum, Total (mg/L)       | n/a   | 0.1                | 0.015            | 0.1   |
| Selenium, Total (mg/L)         | 0.05  |                    | 0.005            | 0.05  |
| Thallium, Total (mg/L)         | 0.002 |                    | 0.001            | 0.002 |

\*Grey cell indicates background is higher than MCL or CCR-Rule

\*GWPS = Groundwater Protection Standard

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

## Confidence Intervals Summary Table - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:06 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Cobalt (mg/L)      | MGWC-7      | 0.009643          | 0.006722          | 0.006             | Yes         | 23       | 0.008183    | 0.002793         | 0           | None           | No               | 0.01         | Param.         |
| Cobalt (mg/L)      | MGWC-8      | 0.01517           | 0.006917          | 0.006             | Yes         | 23       | 0.01104     | 0.007889         | 0           | None           | No               | 0.01         | Param.         |
| Lithium (mg/L)     | MGWC-7      | 0.13              | 0.112             | 0.04              | Yes         | 23       | 0.1227      | 0.01927          | 0           | None           | No               | 0.01         | NP (normality) |

# Confidence Intervals Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:05 PM

| <u>Constituent</u>                | <u>Well</u>   | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u>     | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|-----------------------------------|---------------|-------------------|-------------------|-------------------|-------------|----------|-----------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Antimony (mg/L)                   | MGWC-12       | 0.002             | 0.0015            | 0.006             | No          | 19       | 0.001889        | 0.0003784        | 89.47       | None           | No               | 0.01         | NP (NDs)       |
| Antimony (mg/L)                   | MGWC-3        | 0.002             | 0.0003            | 0.006             | No          | 19       | 0.001911        | 0.00039          | 94.74       | None           | No               | 0.01         | NP (NDs)       |
| Antimony (mg/L)                   | MGWC-7        | 0.002             | 0.00197           | 0.006             | No          | 19       | 0.00192         | 0.0003415        | 89.47       | None           | No               | 0.01         | NP (NDs)       |
| Arsenic (mg/L)                    | MGWC-1        | 0.002733          | 0.001872          | 0.014             | No          | 23       | 0.002303        | 0.0008228        | 0           | None           | No               | 0.01         | Param.         |
| Arsenic (mg/L)                    | MGWC-12       | 0.001061          | 0.0006636         | 0.014             | No          | 23       | 0.001003        | 0.0003575        | 30.43       | Kaplan-Meier   | No               | 0.01         | Param.         |
| Arsenic (mg/L)                    | MGWC-2        | 0.001             | 0.00068           | 0.014             | No          | 23       | 0.000917        | 0.0001949        | 82.61       | Kaplan-Meier   | No               | 0.01         | NP (NDs)       |
| Arsenic (mg/L)                    | MGWC-3        | 0.0017            | 0.00143           | 0.014             | No          | 23       | 0.001584        | 0.0003356        | 4.348       | None           | No               | 0.01         | NP (normality) |
| Arsenic (mg/L)                    | MGWC-7        | 0.0008039         | 0.0005182         | 0.014             | No          | 23       | 0.0008265       | 0.0002772        | 39.13       | Kaplan-Meier   | No               | 0.01         | Param.         |
| Arsenic (mg/L)                    | MGWC-8        | 0.001             | 0.00098           | 0.014             | No          | 23       | 0.0009035       | 0.0001913        | 65.22       | Kaplan-Meier   | No               | 0.01         | NP (NDs)       |
| Barium (mg/L)                     | MGWC-1        | 0.11              | 0.096             | 2                 | No          | 23       | 0.1067          | 0.01576          | 0           | None           | No               | 0.01         | NP (normality) |
| Barium (mg/L)                     | MGWC-12       | 0.06448           | 0.05038           | 2                 | No          | 23       | 0.05743         | 0.01347          | 0           | None           | No               | 0.01         | Param.         |
| Barium (mg/L)                     | MGWC-2        | 0.0534            | 0.04759           | 2                 | No          | 23       | 0.0505          | 0.005561         | 0           | None           | No               | 0.01         | Param.         |
| Barium (mg/L)                     | MGWC-3        | 0.1556            | 0.1421            | 2                 | No          | 23       | 0.1488          | 0.01295          | 0           | None           | No               | 0.01         | Param.         |
| Barium (mg/L)                     | MGWC-7        | 0.015             | 0.01              | 2                 | No          | 23       | 0.01356         | 0.006621         | 4.348       | None           | No               | 0.01         | NP (normality) |
| Barium (mg/L)                     | MGWC-8        | 0.04133           | 0.0341            | 2                 | No          | 23       | 0.03793         | 0.00727          | 0           | None           | sqrt(x)          | 0.01         | Param.         |
| Beryllium (mg/L)                  | MGWC-1        | 0.0025            | 0.00018           | 0.004             | No          | 21       | 0.00239         | 0.0005063        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Beryllium (mg/L)                  | MGWC-3        | 0.0025            | 0.00031           | 0.004             | No          | 21       | 0.002396        | 0.0004779        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Beryllium (mg/L)                  | MGWC-8        | 0.001302          | 0.000712          | 0.004             | No          | 21       | 0.001007        | 0.0005351        | 14.29       | None           | No               | 0.01         | Param.         |
| Cadmium (mg/L)                    | MGWC-1        | 0.0025            | 0.0005            | 0.005             | No          | 23       | 0.002           | 0.0009726        | 78.26       | None           | No               | 0.01         | NP (NDs)       |
| Cadmium (mg/L)                    | MGWC-2        | 0.002854          | 0.001149          | 0.005             | No          | 23       | 0.002239        | 0.001888         | 0           | None           | sqrt(x)          | 0.01         | Param.         |
| Cadmium (mg/L)                    | MGWC-7        | 0.0025            | 0.00041           | 0.005             | No          | 23       | 0.002215        | 0.0007523        | 86.96       | None           | No               | 0.01         | NP (NDs)       |
| Cadmium (mg/L)                    | MGWC-8        | 0.001482          | 0.000647          | 0.005             | No          | 23       | 0.001597        | 0.001153         | 26.09       | Kaplan-Meier   | sqrt(x)          | 0.01         | Param.         |
| Chromium (mg/L)                   | MGWC-1        | 0.0036            | 0.0014            | 0.1               | No          | 21       | 0.002048        | 0.000379         | 90.48       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-12       | 0.0032            | 0.0012            | 0.1               | No          | 21       | 0.003305        | 0.005896         | 85.71       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-2        | 0.0033            | 0.002             | 0.1               | No          | 21       | 0.002062        | 0.0002837        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-3        | 0.003             | 0.002             | 0.1               | No          | 21       | 0.002048        | 0.0002182        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-7        | 0.0034            | 0.0015            | 0.1               | No          | 21       | 0.00201         | 0.0003673        | 85.71       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-8        | 0.0031            | 0.0013            | 0.1               | No          | 21       | 0.002019        | 0.0002909        | 90.48       | None           | No               | 0.01         | NP (NDs)       |
| Cobalt (mg/L)                     | MGWC-1        | 0.0025            | 0.00047           | 0.006             | No          | 23       | 0.001788        | 0.001014         | 65.22       | None           | No               | 0.01         | NP (NDs)       |
| Cobalt (mg/L)                     | MGWC-12       | 0.0025            | 0.0015            | 0.006             | No          | 23       | 0.002355        | 0.0005218        | 91.3        | None           | No               | 0.01         | NP (NDs)       |
| Cobalt (mg/L)                     | MGWC-2        | 0.003172          | 0.002257          | 0.006             | No          | 23       | 0.002715        | 0.0008745        | 0           | None           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                     | MGWC-3        | 0.00068           | 0.00051           | 0.006             | No          | 23       | 0.0007574       | 0.0004694        | 13.04       | None           | No               | 0.01         | NP (normality) |
| Cobalt (mg/L)                     | <b>MGWC-7</b> | <b>0.009643</b>   | <b>0.006722</b>   | <b>0.006</b>      | Yes         | 23       | <b>0.008183</b> | <b>0.002793</b>  | <b>0</b>    | <b>None</b>    | No               | <b>0.01</b>  | Param.         |
| Cobalt (mg/L)                     | <b>MGWC-8</b> | <b>0.01517</b>    | <b>0.006917</b>   | <b>0.006</b>      | Yes         | 23       | <b>0.01104</b>  | <b>0.007889</b>  | <b>0</b>    | <b>None</b>    | No               | <b>0.01</b>  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-1        | 1.706             | 1.315             | 5                 | No          | 24       | 1.51            | 0.3825           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-12       | 0.7489            | 0.4601            | 5                 | No          | 23       | 0.6045          | 0.2761           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-2        | 0.7573            | 0.4849            | 5                 | No          | 23       | 0.6211          | 0.2604           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-3        | 1.766             | 1.39              | 5                 | No          | 24       | 1.578           | 0.3681           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-7        | 1.335             | 0.9723            | 5                 | No          | 23       | 1.154           | 0.3472           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-8        | 1.917             | 1.354             | 5                 | No          | 23       | 1.636           | 0.5383           | 0           | None           | No               | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-1        | 0.226             | 0.1411            | 4                 | No          | 22       | 0.1835          | 0.07909          | 0           | None           | No               | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-12       | 0.251             | 0.1993            | 4                 | No          | 22       | 0.2194          | 0.058            | 0           | None           | x^2              | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-2        | 0.2               | 0.075             | 4                 | No          | 22       | 0.1266          | 0.05876          | 31.82       | None           | No               | 0.01         | NP (normality) |
| Fluoride (mg/L)                   | MGWC-3        | 0.2               | 0.082             | 4                 | No          | 22       | 0.125           | 0.05834          | 27.27       | None           | No               | 0.01         | NP (normality) |
| Fluoride (mg/L)                   | MGWC-7        | 0.3231            | 0.2136            | 4                 | No          | 22       | 0.2684          | 0.102            | 0           | None           | No               | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-8        | 0.1075            | 0.07238           | 4                 | No          | 22       | 0.08995         | 0.03274          | 13.64       | None           | No               | 0.01         | Param.         |
| Lead (mg/L)                       | MGWC-12       | 0.001             | 0.0001            | 0.015             | No          | 19       | 0.0009526       | 0.0002065        | 94.74       | None           | No               | 0.01         | NP (NDs)       |
| Lead (mg/L)                       | MGWC-7        | 0.001             | 0.0003            | 0.015             | No          | 19       | 0.0008789       | 0.0002879        | 84.21       | None           | No               | 0.01         | NP (NDs)       |
| Lead (mg/L)                       | MGWC-8        | 0.001             | 0.00022           | 0.015             | No          | 19       | 0.0009589       | 0.0001789        | 94.74       | None           | No               | 0.01         | NP (NDs)       |
| Lithium (mg/L)                    | MGWC-1        | 0.01212           | 0.01011           | 0.04              | No          | 23       | 0.01112         | 0.001925         | 4.348       | None           | No               | 0.01         | Param.         |
| Lithium (mg/L)                    | MGWC-12       | 0.022             | 0.01664           | 0.04              | No          | 23       | 0.01932         | 0.00512          | 0           | None           | No               | 0.01         | Param.         |
| Lithium (mg/L)                    | MGWC-2        | 0.0066            | 0.0051            | 0.04              | No          | 23       | 0.006533        | 0.004171         | 4.348       | None           | No               | 0.01         | NP (normality) |
| Lithium (mg/L)                    | MGWC-3        | 0.01334           | 0.01146           | 0.04              | No          | 23       | 0.0124          | 0.001792         | 0           | None           | No               | 0.01         | Param.         |
| <b>Lithium (mg/L)</b>             | <b>MGWC-7</b> | <b>0.13</b>       | <b>0.112</b>      | <b>0.04</b>       | Yes         | 23       | <b>0.1227</b>   | <b>0.01927</b>   | <b>0</b>    | <b>None</b>    | No               | <b>0.01</b>  | NP (normality) |
| Lithium (mg/L)                    | MGWC-8        | 0.03648           | 0.02458           | 0.04              | No          | 23       | 0.03053         | 0.01138          | 0           | None           | No               | 0.01         | Param.         |

# Confidence Intervals Summary Table - All Results

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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:05 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u>     | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|--------------------|------------------|--------------|----------------|
| Mercury (mg/L)     | MGWC-12     | 0.0002            | 0.000086          | 0.015             | No          | 21       | 0.0001886   | 0.00003614       | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-2      | 0.0002            | 0.0001            | 0.015             | No          | 21       | 0.0001894   | 0.00003357       | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-3      | 0.0002            | 0.00007           | 0.015             | No          | 21       | 0.0001938   | 0.00002837       | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-7      | 0.0002            | 0.00008           | 0.015             | No          | 21       | 0.0001943   | 0.00002619       | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-8      | 0.00021           | 0.00014           | 0.015             | No          | 22       | 0.0004062   | 0.0008409        | 36.36       | None               | No               | 0.01         | NP (normality) |
| Molybdenum (mg/L)  | MGWC-1      | 0.0029            | 0.0012            | 0.1               | No          | 21       | 0.01549     | 0.02958          | 19.05       | None               | No               | 0.01         | NP (normality) |
| Molybdenum (mg/L)  | MGWC-12     | 0.015             | 0.002             | 0.1               | No          | 21       | 0.01112     | 0.006291         | 71.43       | None               | No               | 0.01         | NP (NDs)       |
| Molybdenum (mg/L)  | MGWC-7      | 0.015             | 0.00351           | 0.1               | No          | 21       | 0.01445     | 0.002507         | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Molybdenum (mg/L)  | MGWC-8      | 0.015             | 0.0037            | 0.1               | No          | 21       | 0.01446     | 0.002466         | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-1      | 0.005             | 0.0005            | 0.05              | No          | 17       | 0.004735    | 0.001091         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-12     | 0.005             | 0.00027           | 0.05              | No          | 17       | 0.004722    | 0.001147         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-2      | 0.005             | 0.00045           | 0.05              | No          | 17       | 0.004732    | 0.001104         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-3      | 0.005             | 0.00044           | 0.05              | No          | 17       | 0.004732    | 0.001106         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-7      | 0.005             | 0.00026           | 0.05              | No          | 17       | 0.004721    | 0.00115          | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-8      | 0.005             | 0.0024            | 0.05              | No          | 17       | 0.004022    | 0.001871         | 76.47       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-1      | 0.001             | 0.00032           | 0.002             | No          | 21       | 0.0008002   | 0.0003686        | 76.19       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-12     | 0.001             | 0.00027           | 0.002             | No          | 21       | 0.0009248   | 0.0002384        | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-2      | 0.001             | 0.00021           | 0.002             | No          | 21       | 0.0009624   | 0.0001724        | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-3      | 0.001             | 0.00037           | 0.002             | No          | 21       | 0.00093     | 0.0002236        | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-8      | 0.0002416         | 0.0001397         | 0.002             | No          | 21       | 0.0004852   | 0.0003818        | 33.33       | Kaplan-Meier In(x) | 0.01             | Param.       |                |

## Appendix IV Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:51 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)      | MGWC-7      | -0.0007131   | -101         | -76             | Yes         | 23       | 0           | n/a              | n/a          | 0.05         | NP            |

## Appendix IV Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:51 PM

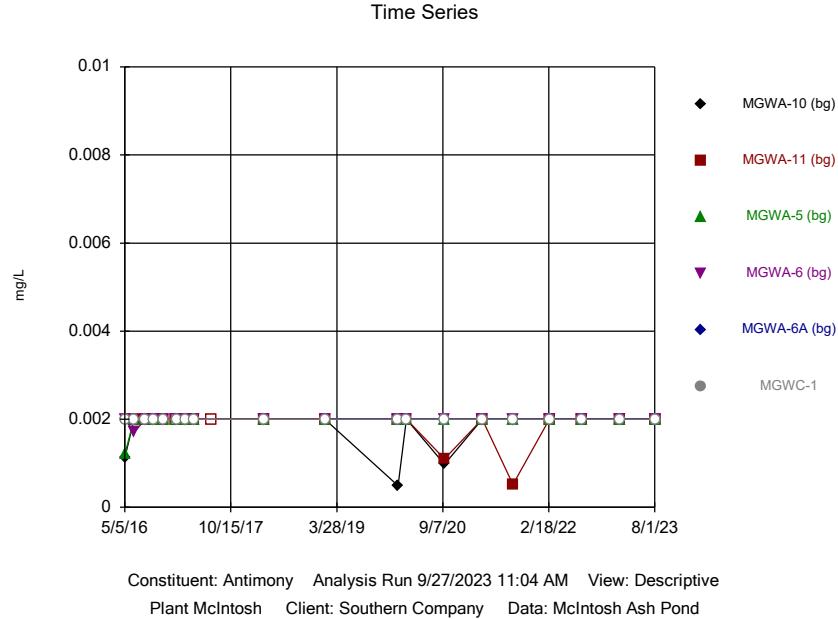
| <u>Constituent</u>   | <u>Well</u>   | <u>Slope</u>      | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|----------------------|---------------|-------------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)        | MGWA-10 (bg)  | 0                 | 3            | 76              | No          | 23        | 86.96       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-11 (bg)  | 0                 | 22           | 76              | No          | 23        | 95.65       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-5 (bg)   | 0                 | 19           | 71              | No          | 22        | 95.45       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-6 (bg)   | 0                 | -21          | -76             | No          | 23        | 43.48       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-6A (bg)  | 0.00003125        | 5            | 30              | No          | 12        | 16.67       | n/a              | n/a          | 0.05         | NP            |
| <b>Cobalt (mg/L)</b> | <b>MGWC-7</b> | <b>-0.0007131</b> | <b>-101</b>  | <b>-76</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>    | <b>n/a</b>       | <b>n/a</b>   | <b>0.05</b>  | <b>NP</b>     |
| Cobalt (mg/L)        | MGWC-8        | 0.00206           | 66           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-10 (bg)  | -0.00002307       | -8           | -76             | No          | 23        | 4.348       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-11 (bg)  | 0.0008063         | 50           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-5 (bg)   | 0.0002355         | 43           | 76              | No          | 23        | 4.348       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-6 (bg)   | 0                 | 4            | 76              | No          | 23        | 95.65       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-6A (bg)  | -0.00004875       | -30          | -30             | No          | 12        | 66.67       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWC-7        | 0                 | 36           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |

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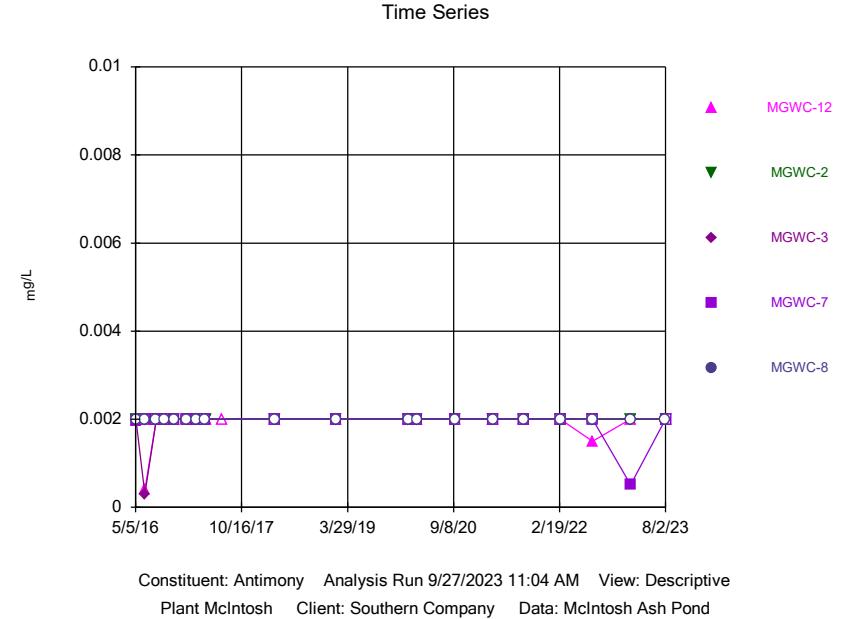
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## FIGURE A.

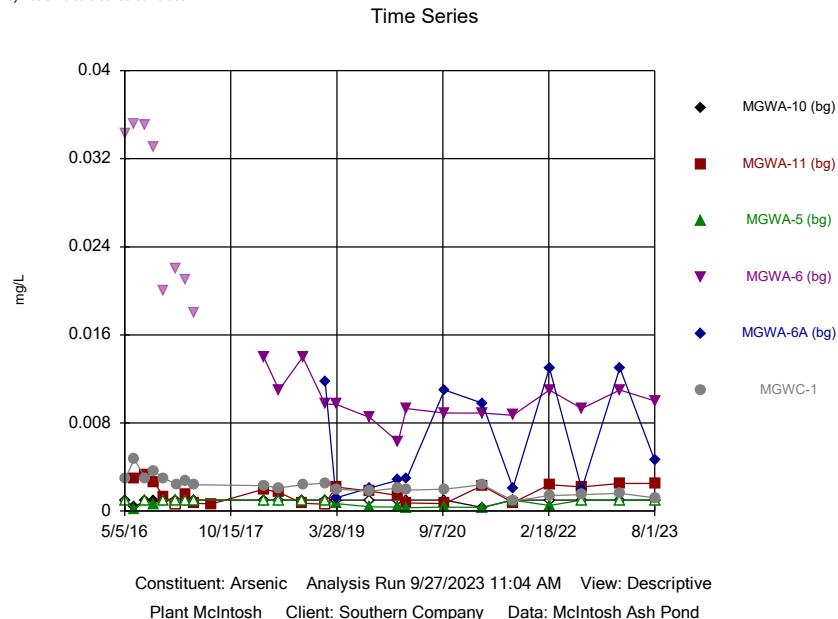
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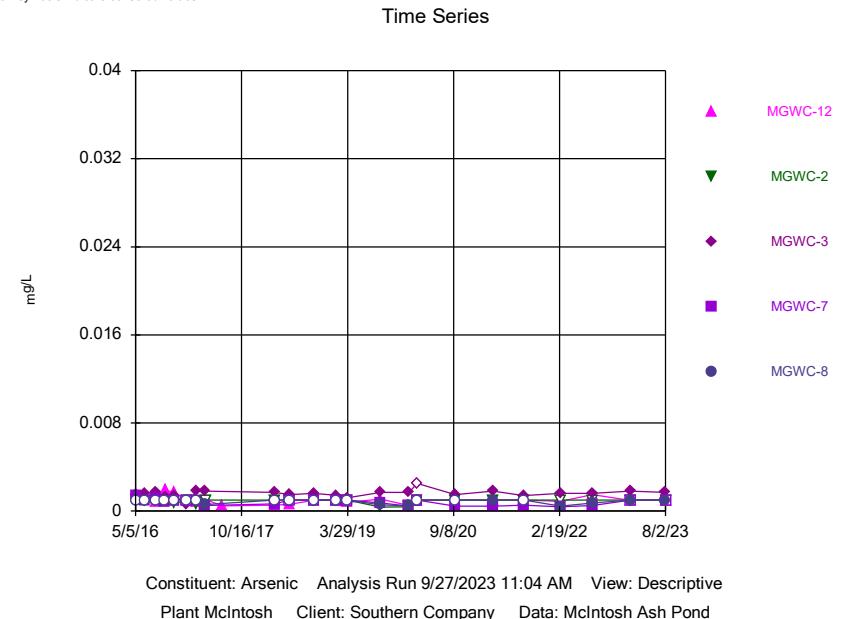
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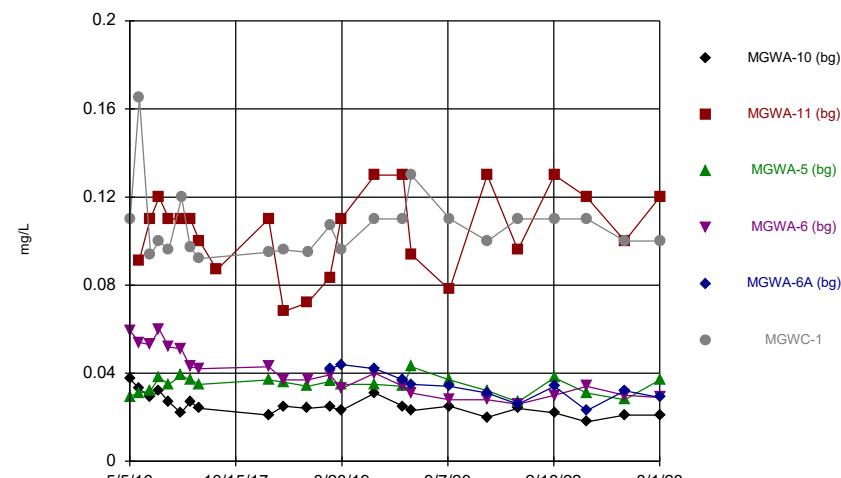
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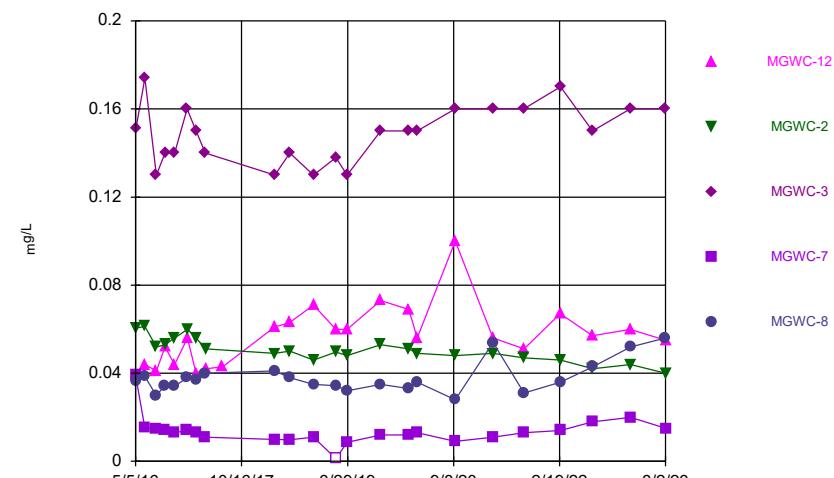


## Time Series



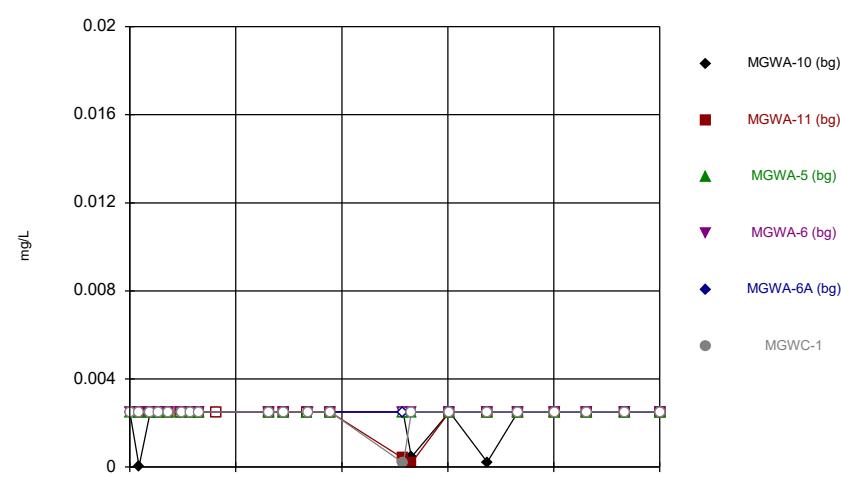
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## Time Series



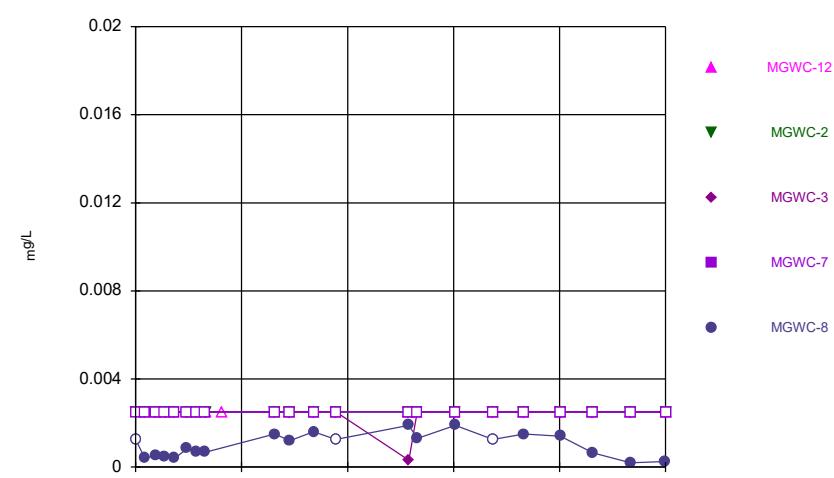
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## Time Series



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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

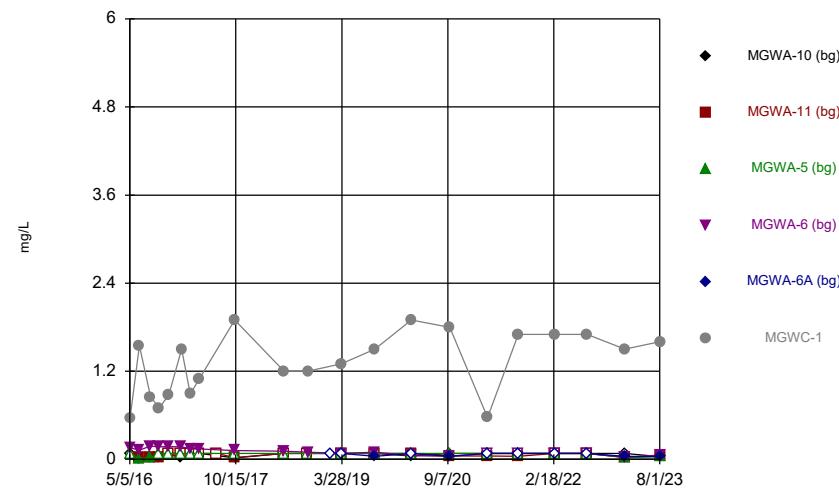
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

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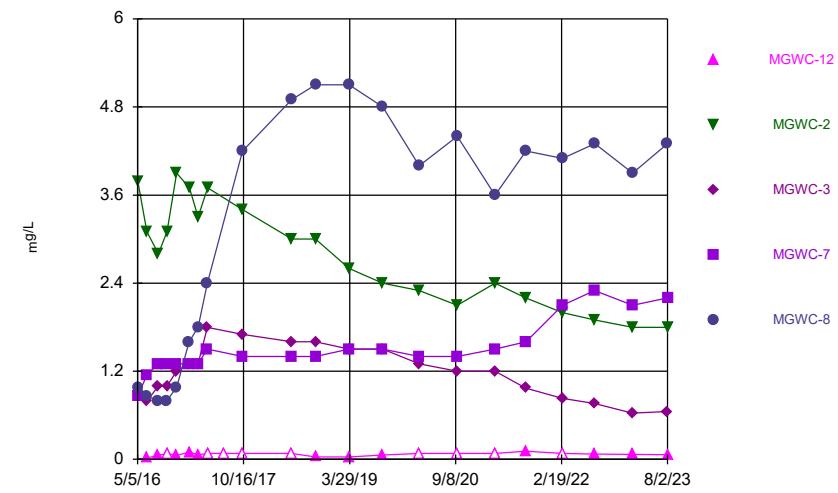
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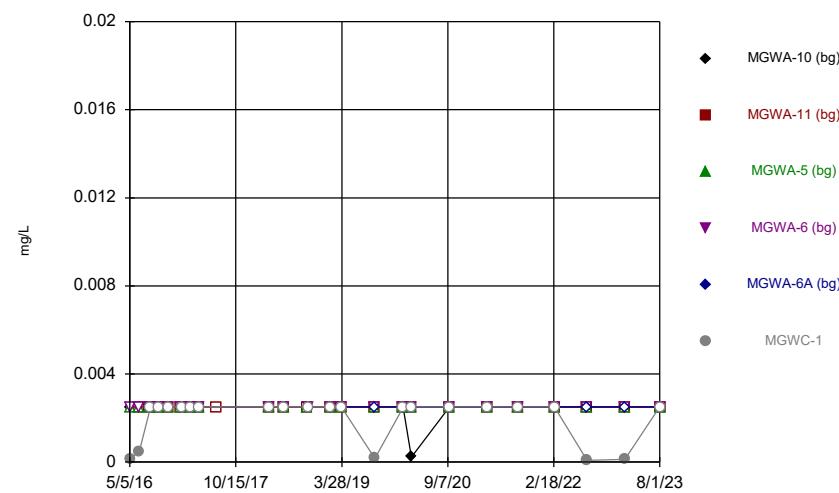
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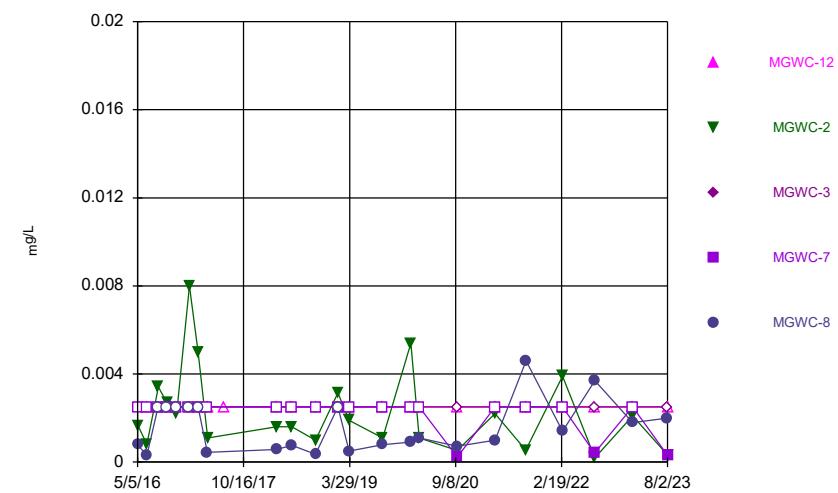
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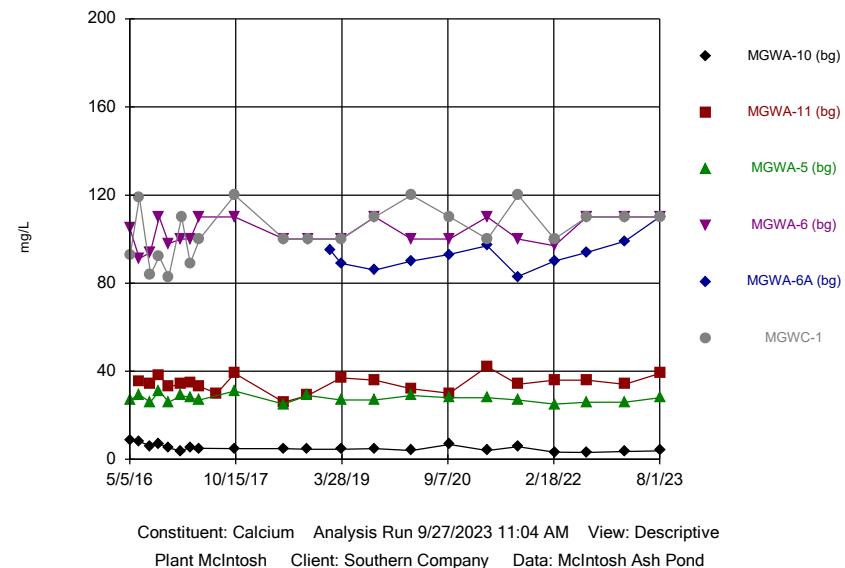
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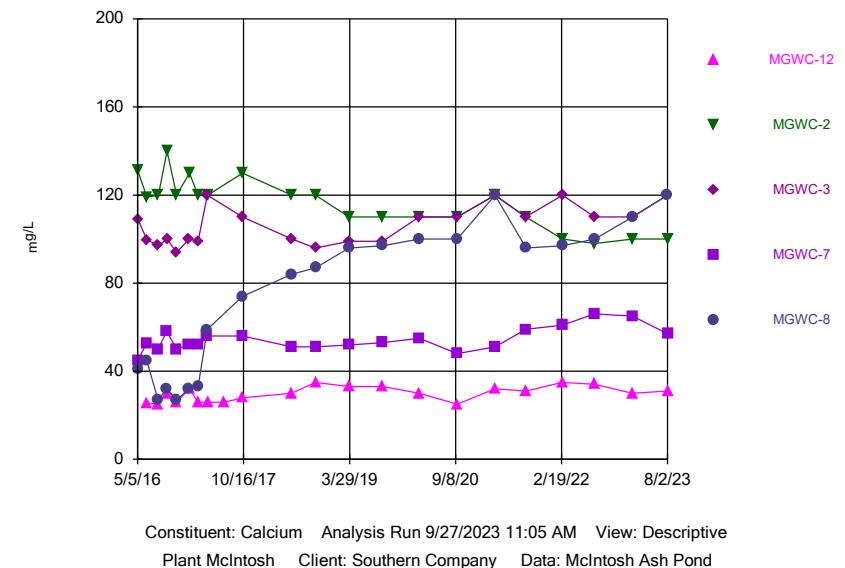


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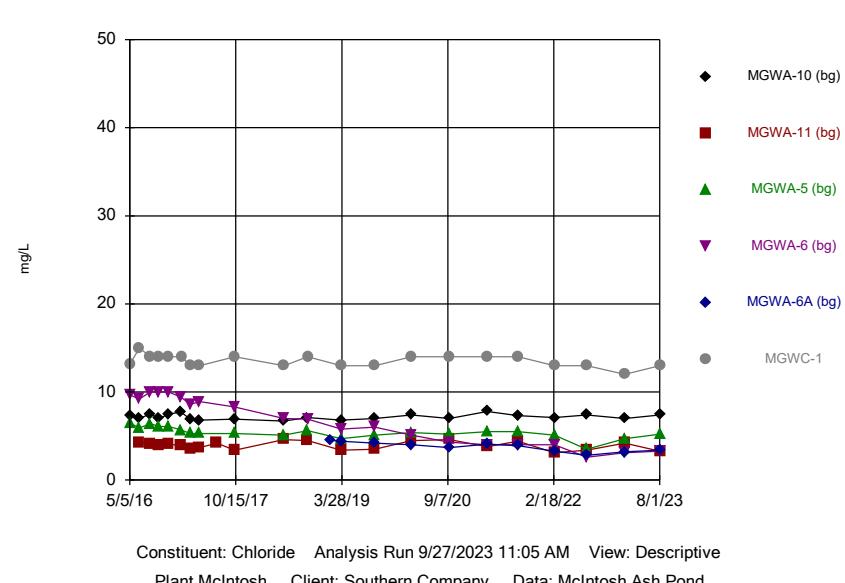
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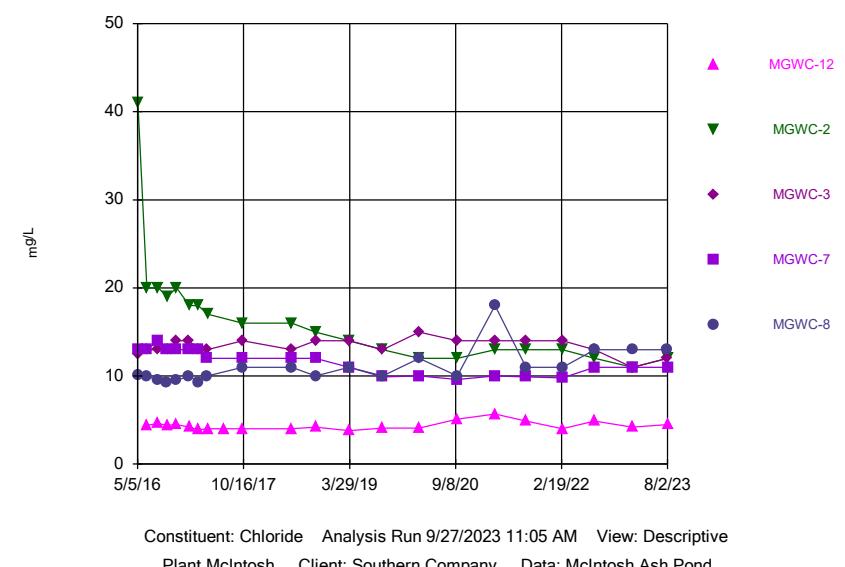
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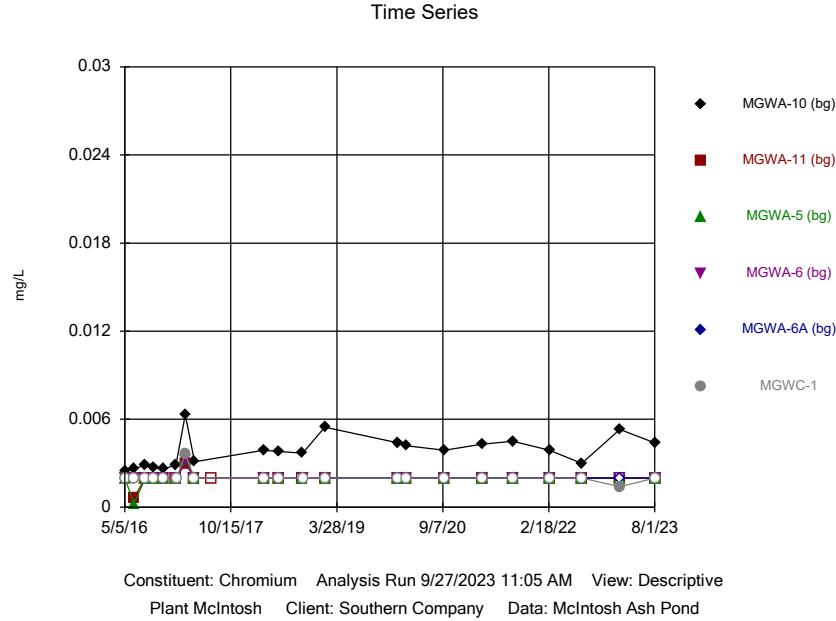
## Time Series



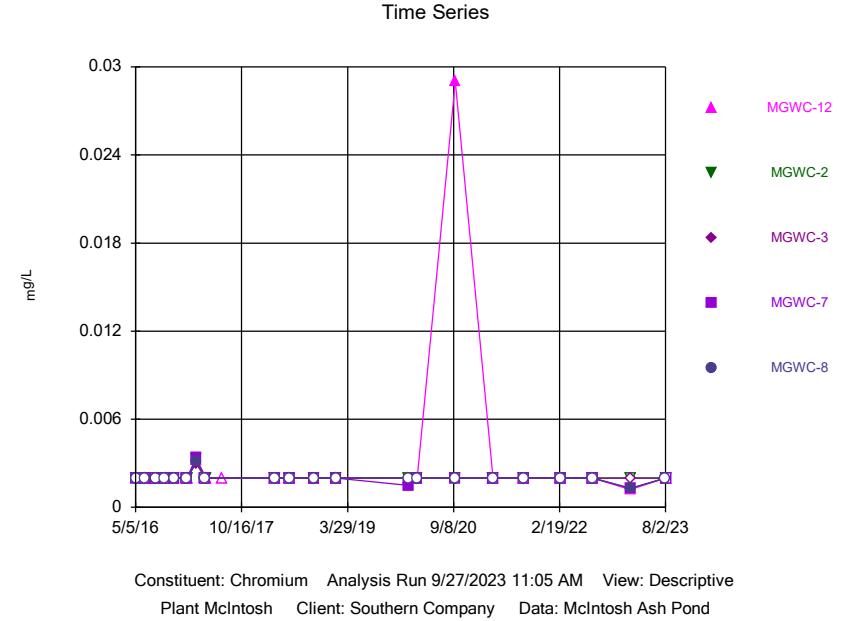
## Time Series



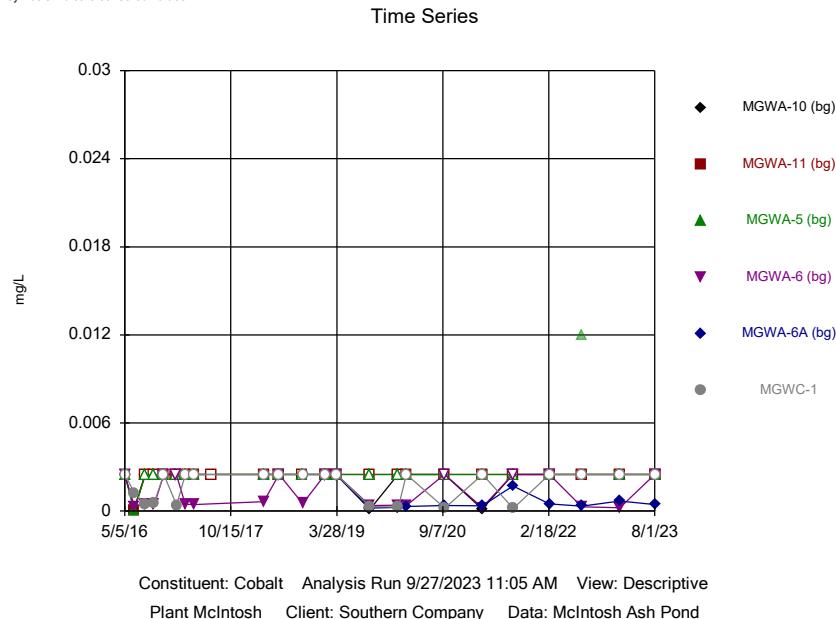
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



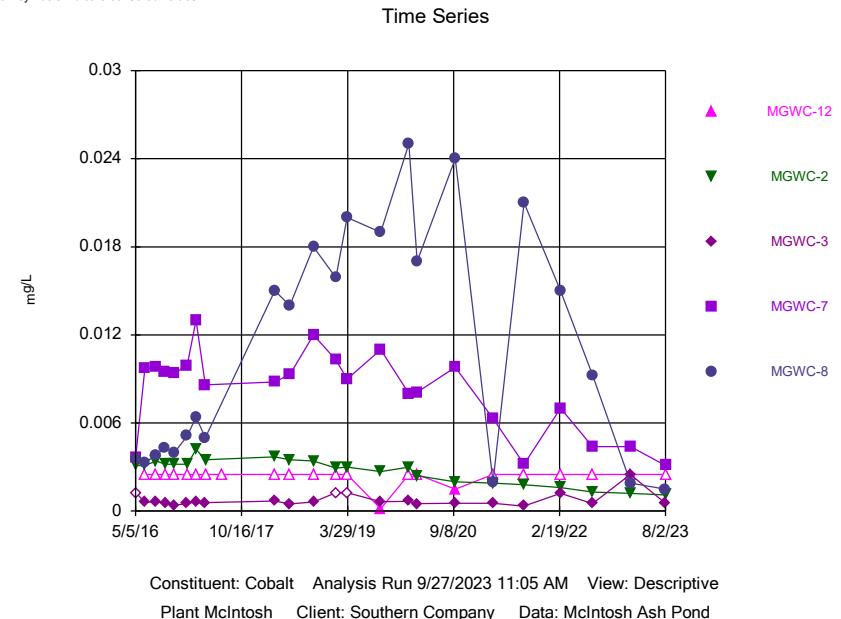
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



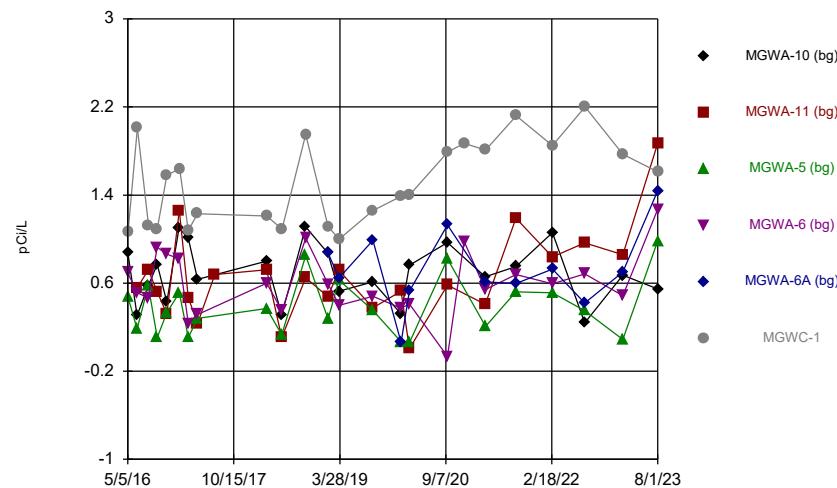
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



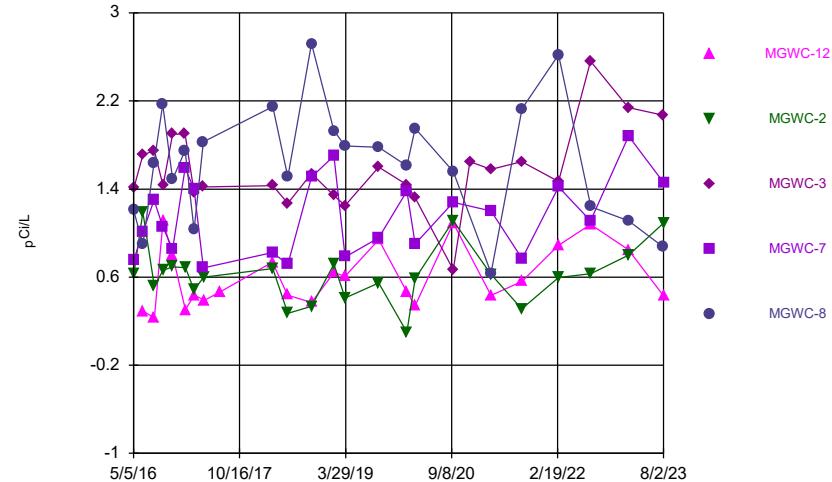
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



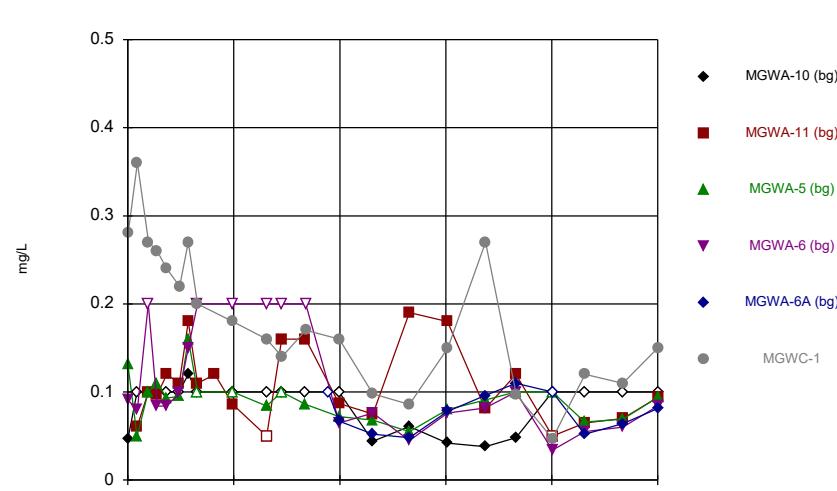
Time Series



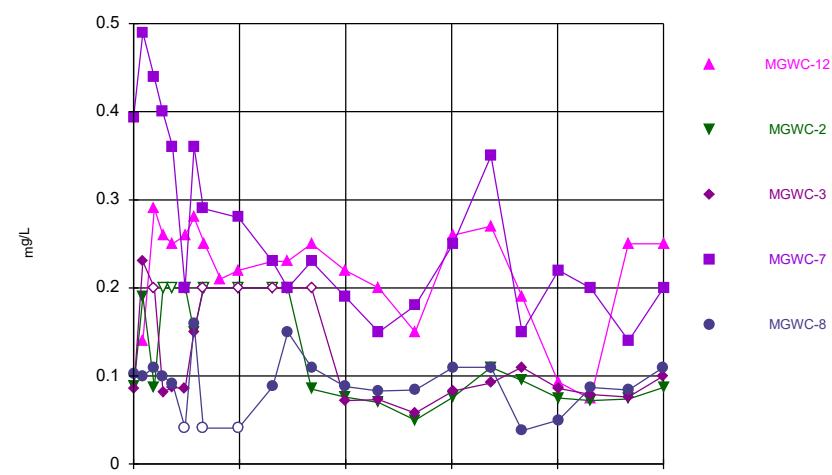
Time Series



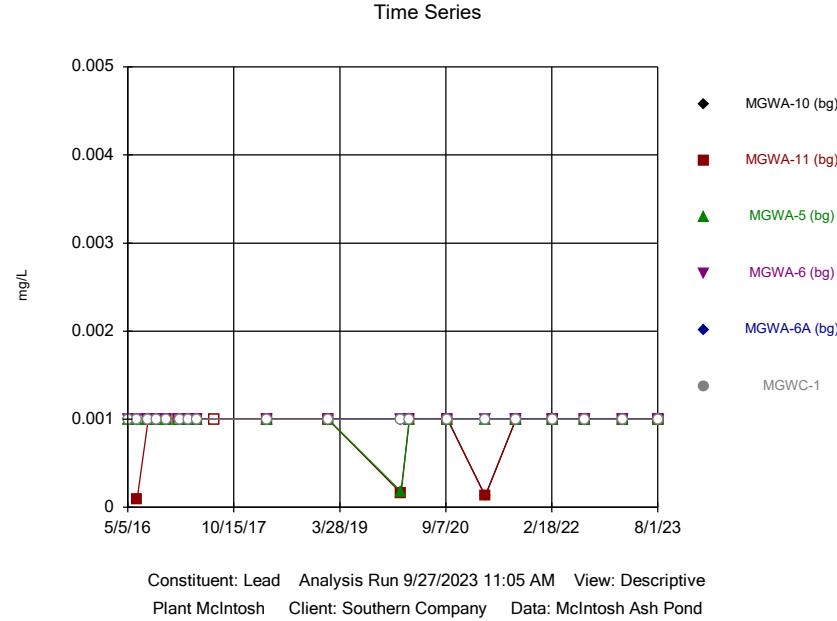
Time Series



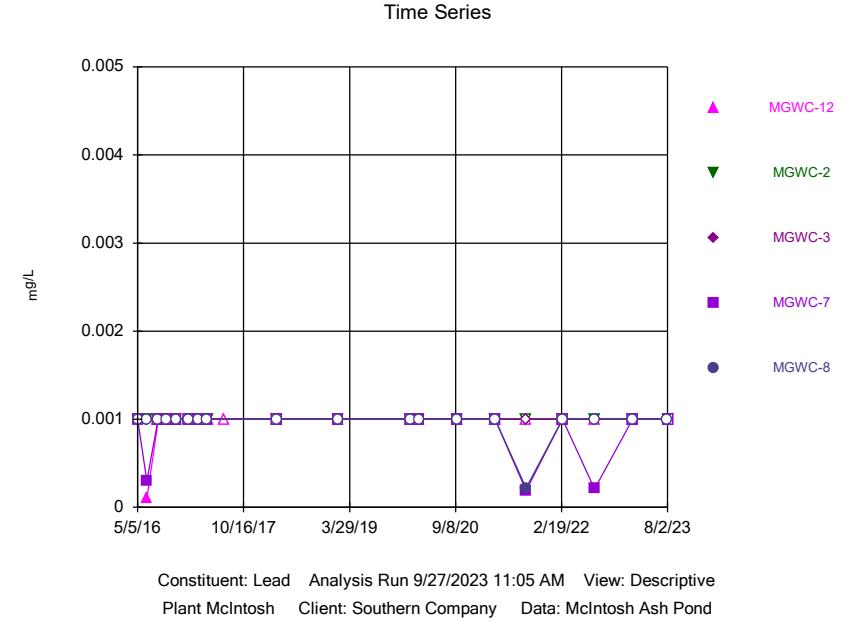
Time Series



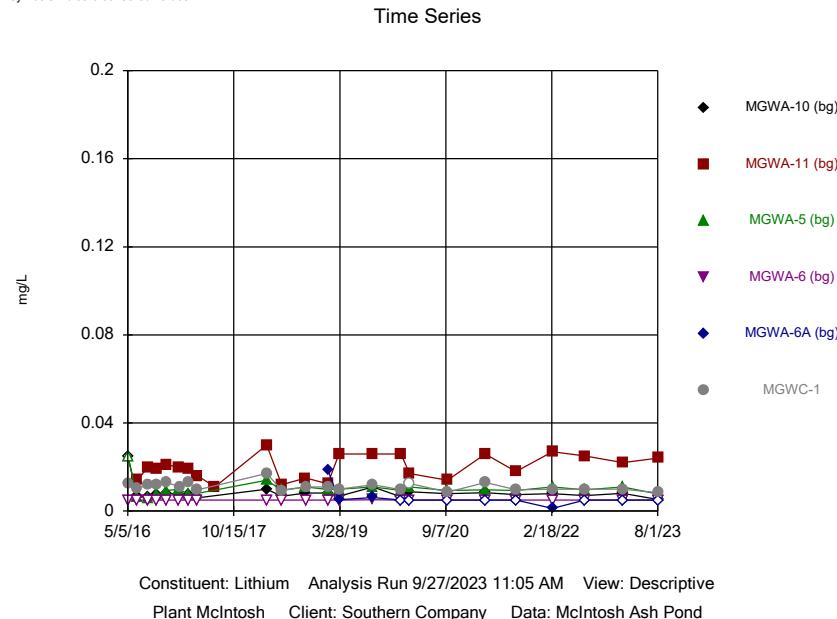
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



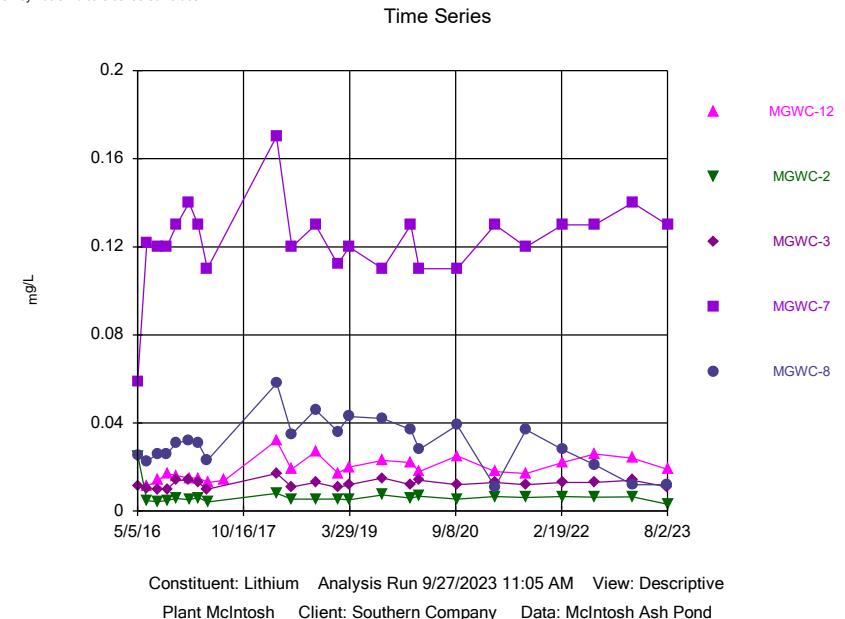
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



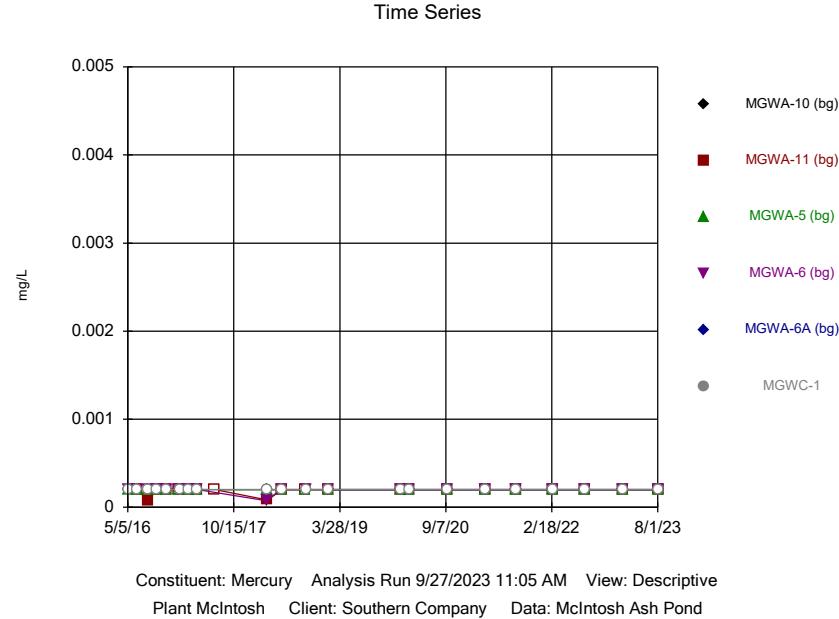
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



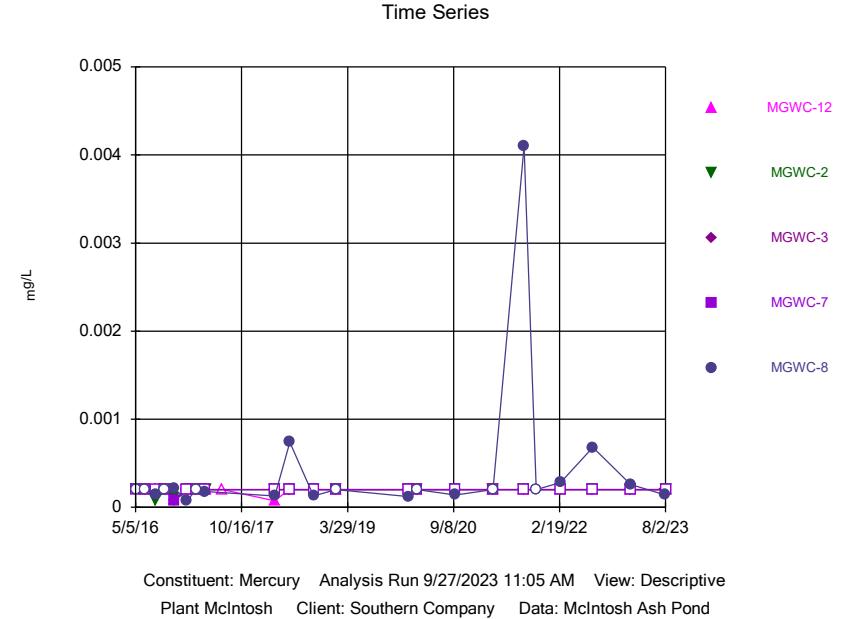
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



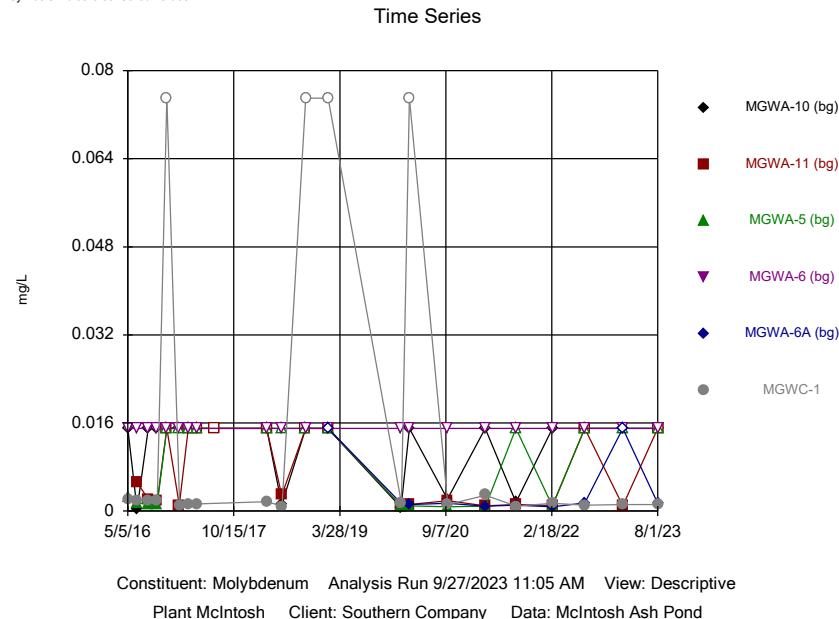
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



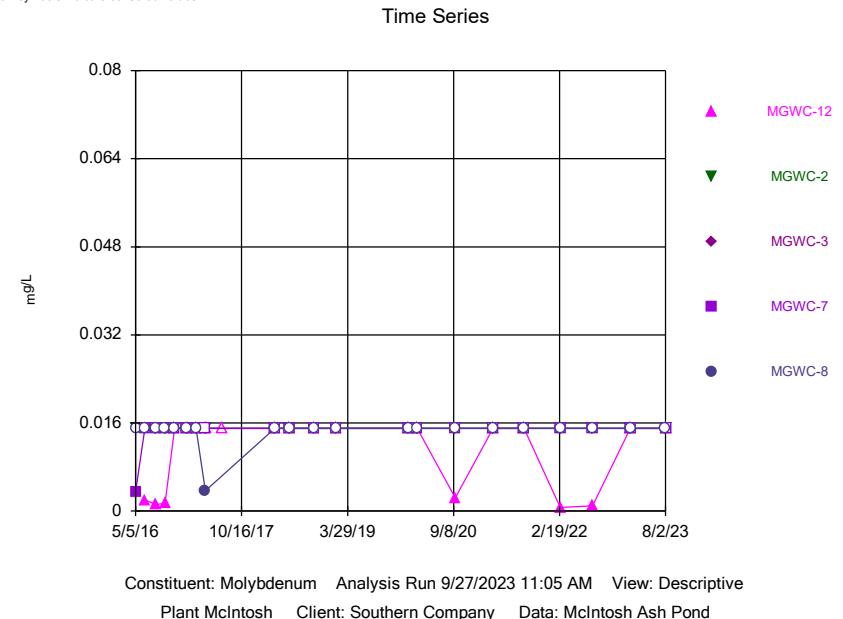
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



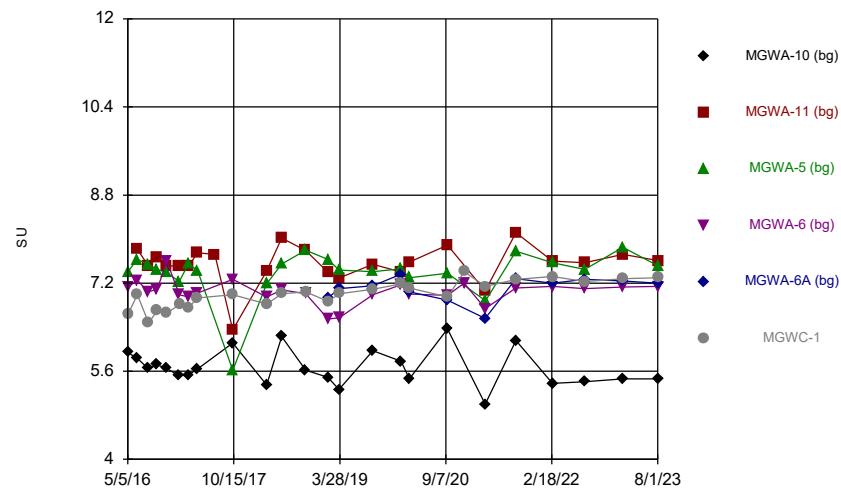
Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.



Sanitas™ v.10.0.06 Software licensed to Groundwater Stats Consulting, UG  
Hollow symbols indicate censored values.

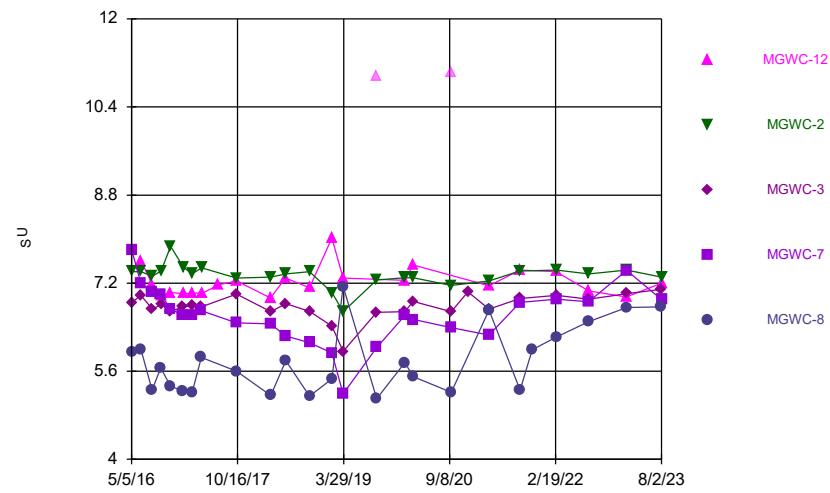


## Time Series



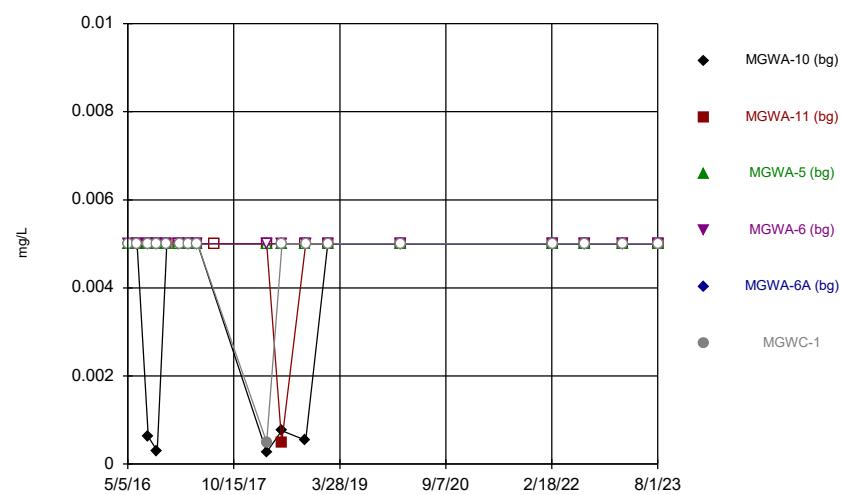
Constituent: pH Analysis Run 9/27/2023 11:05 AM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series



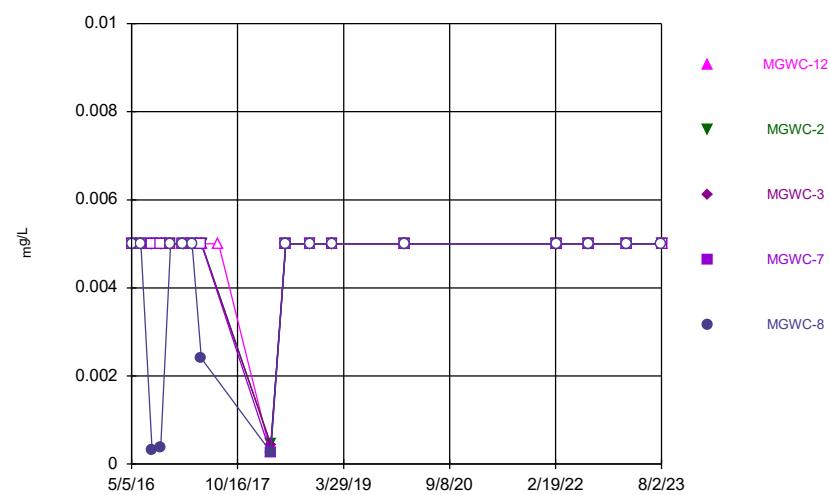
Constituent: pH Analysis Run 9/27/2023 11:05 AM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series

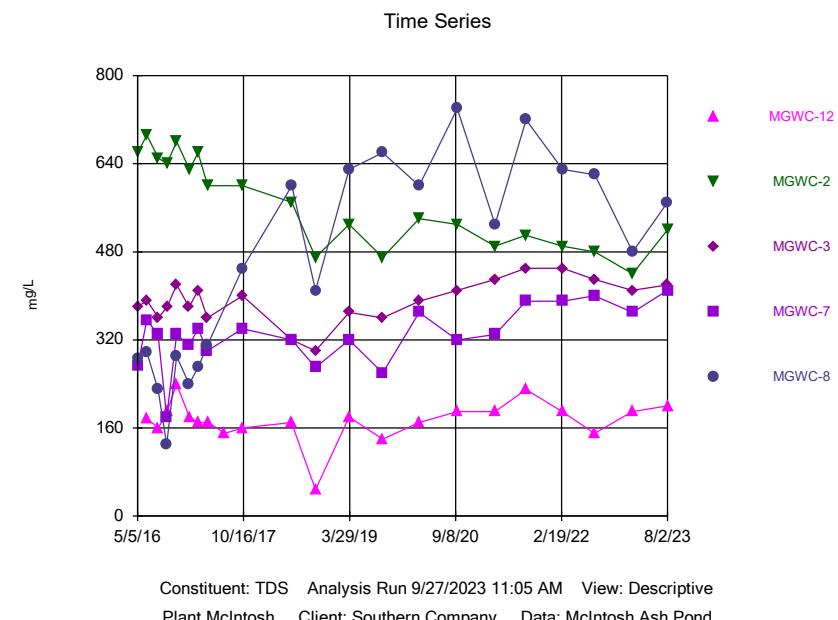
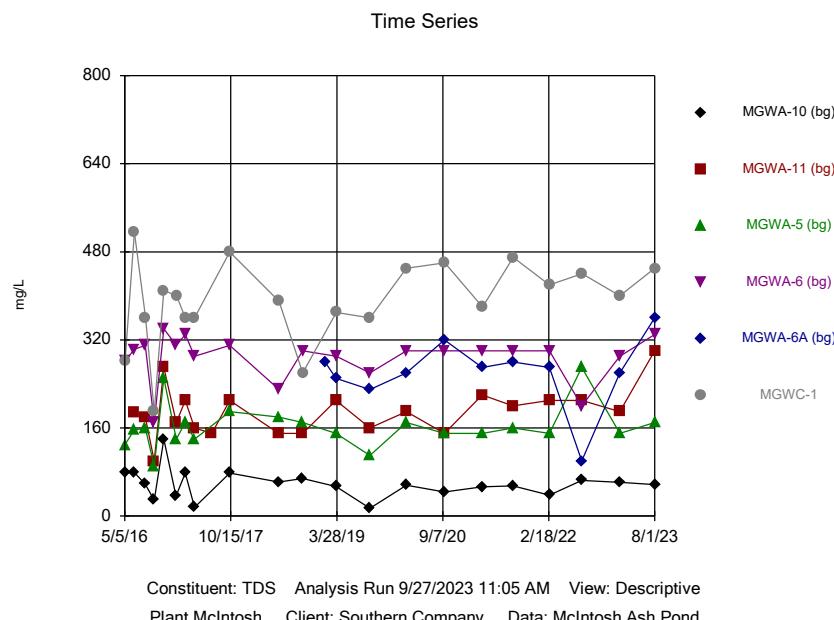
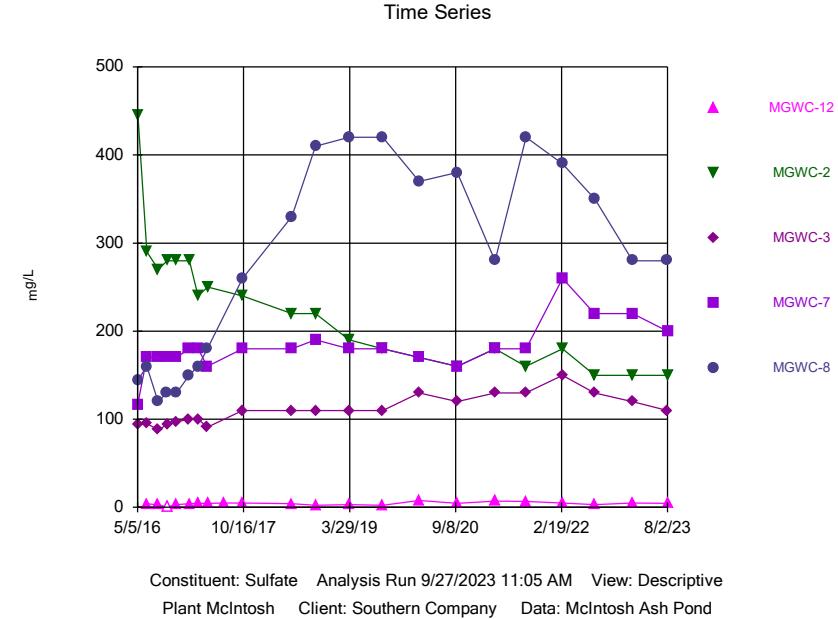
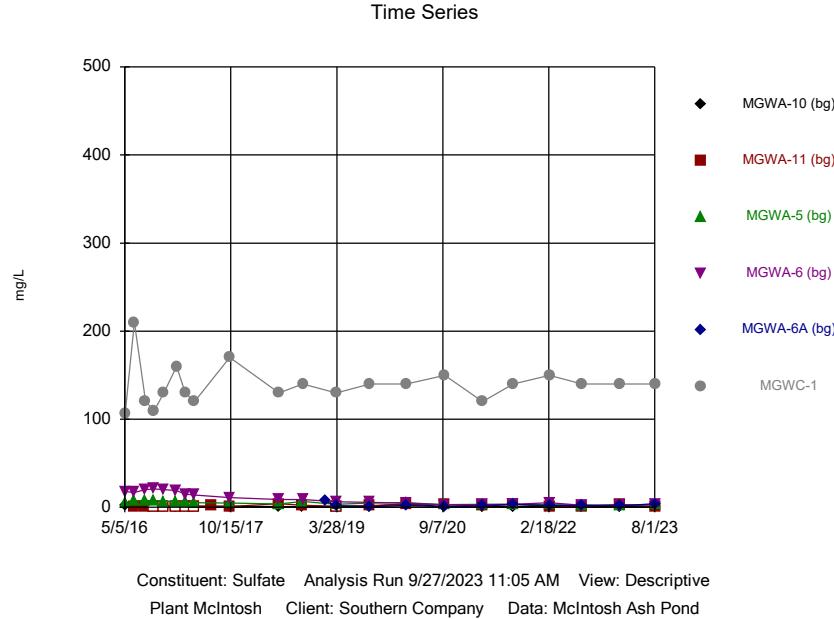


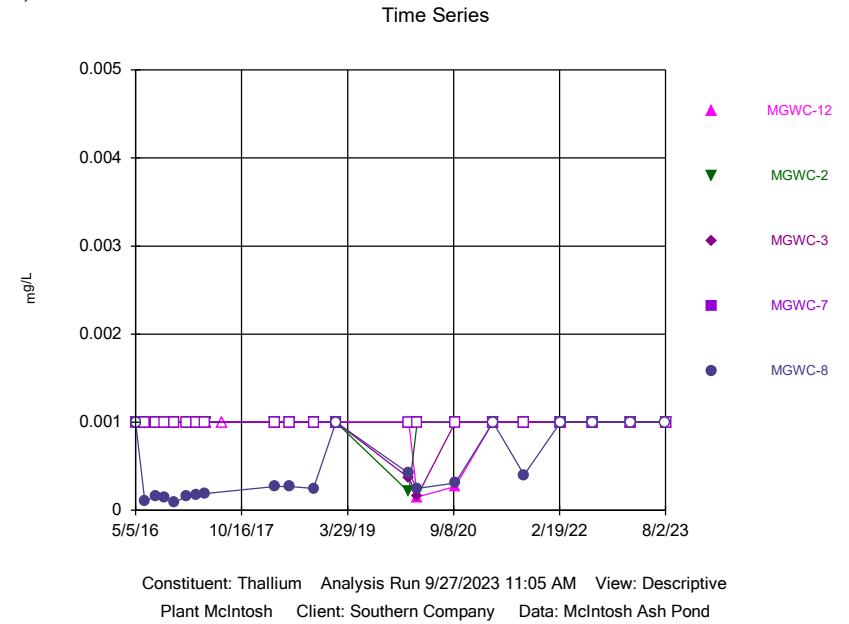
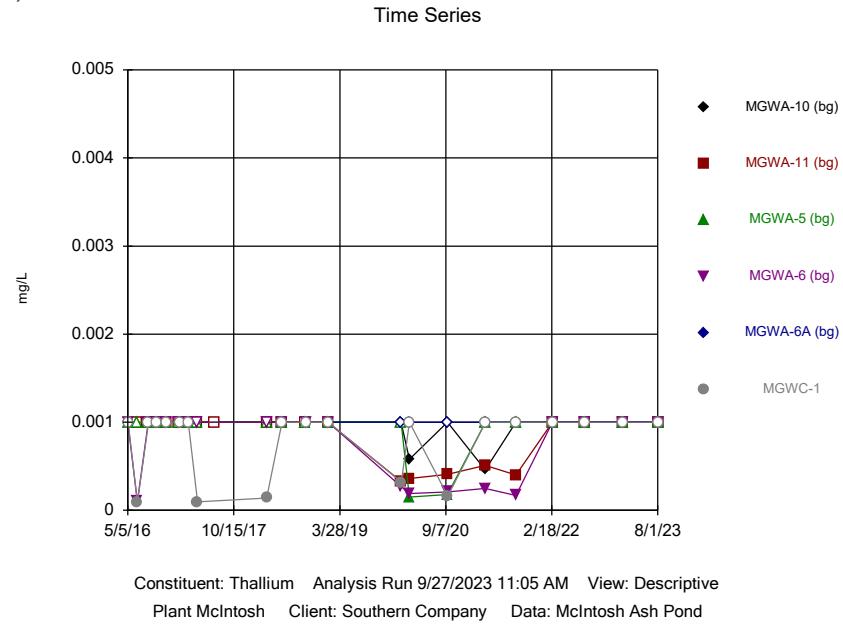
Constituent: Selenium Analysis Run 9/27/2023 11:05 AM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Time Series



Constituent: Selenium Analysis Run 9/27/2023 11:05 AM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond





## Time Series

Constituent: Antimony (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 0.00112 (J)  |              |             | <0.002      |              |        |
| 5/6/2016   |              |              |             |             |              | <0.002 |
| 6/20/2016  | <0.002       | <0.002       | <0.002      |             |              |        |
| 6/21/2016  |              |              |             | 0.0017 (J)  |              | <0.002 |
| 8/15/2016  | <0.002       | <0.002       | <0.002      | <0.002      |              |        |
| 8/16/2016  |              |              |             |             |              | <0.002 |
| 9/28/2016  | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 11/16/2016 | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 1/16/2017  | <0.002       |              |             |             |              |        |
| 1/17/2017  |              | <0.002       | <0.002      | <0.002      |              |        |
| 1/19/2017  |              |              |             |             |              | <0.002 |
| 3/2/2017   | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 4/18/2017  | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 7/13/2017  |              | <0.002       |             |             |              |        |
| 3/29/2018  | <0.002       | <0.002       | <0.002      | <0.002      |              | <0.002 |
| 1/28/2019  | <0.002       | <0.002       |             |             |              |        |
| 1/29/2019  |              |              | <0.002      | <0.002      | <0.002       | <0.002 |
| 1/28/2020  | 0.00049 (J)  | <0.002       | <0.002      | <0.002      | <0.002       |        |
| 1/29/2020  |              |              |             |             |              | <0.002 |
| 3/9/2020   | <0.002       | <0.002       |             |             |              |        |
| 3/10/2020  |              |              | <0.002      | <0.002      | <0.002       | <0.002 |
| 9/16/2020  | 0.00098 (J)  | 0.0011 (J)   | <0.002      | <0.002      | <0.002       |        |
| 9/17/2020  |              |              |             |             |              | <0.002 |
| 3/23/2021  | <0.002       | <0.002       |             | <0.002      | <0.002       |        |
| 3/24/2021  |              |              | <0.002      |             |              | <0.002 |
| 8/23/2021  | <0.002       | 0.00052 (J)  |             |             |              |        |
| 8/24/2021  |              |              | <0.002      | <0.002      | <0.002       |        |
| 8/25/2021  |              |              |             |             |              | <0.002 |
| 2/22/2022  | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       | <0.002 |
| 8/2/2022   | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       |        |
| 8/3/2022   |              |              |             |             |              | <0.002 |
| 2/7/2023   | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       |        |
| 2/8/2023   |              |              |             |             |              | <0.002 |
| 8/1/2023   | <0.002       | <0.002       | <0.002      | <0.002      | <0.002       | <0.002 |

## Time Series

Constituent: Antimony (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3     | MGWC-7      | MGWC-8 |
|------------|------------|--------|------------|-------------|--------|
| 5/5/2016   |            |        |            | 0.00197 (J) | <0.002 |
| 5/6/2016   |            | <0.002 | <0.002     |             |        |
| 6/21/2016  | 0.0004 (J) | <0.002 | 0.0003 (J) | <0.002      | <0.002 |
| 8/15/2016  |            |        |            | <0.002      | <0.002 |
| 8/16/2016  | <0.002     | <0.002 | <0.002     |             |        |
| 9/28/2016  |            |        |            | <0.002      | <0.002 |
| 9/29/2016  | <0.002     | <0.002 | <0.002     |             |        |
| 11/16/2016 | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 1/17/2017  |            |        | <0.002     | <0.002      | <0.002 |
| 1/18/2017  | <0.002     | <0.002 |            |             |        |
| 3/2/2017   | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 4/18/2017  |            |        | <0.002     | <0.002      | <0.002 |
| 4/19/2017  |            | <0.002 |            |             |        |
| 4/25/2017  | <0.002     |        |            |             |        |
| 7/13/2017  | <0.002     |        |            |             |        |
| 3/29/2018  | <0.002     |        | <0.002     |             |        |
| 3/30/2018  |            | <0.002 | <0.002     |             | <0.002 |
| 1/29/2019  | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 1/28/2020  | <0.002     |        |            | <0.002      |        |
| 1/29/2020  |            | <0.002 | <0.002     |             | <0.002 |
| 3/10/2020  | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 9/16/2020  | <0.002     | <0.002 |            |             |        |
| 9/17/2020  |            |        | <0.002     | <0.002      | <0.002 |
| 3/24/2021  | <0.002     | <0.002 | <0.002     | <0.002      | <0.002 |
| 8/24/2021  |            | <0.002 | <0.002     |             |        |
| 8/25/2021  | <0.002     |        |            | <0.002      | <0.002 |
| 2/22/2022  | <0.002     |        |            |             |        |
| 2/23/2022  |            | <0.002 | <0.002     | <0.002      | <0.002 |
| 8/2/2022   | 0.0015 (J) |        |            |             |        |
| 8/3/2022   |            |        | <0.002     | <0.002      |        |
| 8/4/2022   |            | <0.002 |            |             | <0.002 |
| 2/7/2023   | <0.002     |        | <0.002     |             |        |
| 2/8/2023   |            | <0.002 |            | 0.00051 (J) | <0.002 |
| 8/1/2023   |            |        | <0.002     |             | <0.002 |
| 8/2/2023   | <0.002     | <0.002 |            | <0.002      |        |

## Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.001       |              | <0.001      | 0.0343      |              |             |
| 5/6/2016   |              |              |             |             |              | 0.00299 (J) |
| 6/20/2016  | 0.00036 (J)  | 0.003 (J)    | 0.00014 (J) |             |              |             |
| 6/21/2016  |              |              |             | 0.0352      |              | 0.0047 (J)  |
| 8/15/2016  | 0.00096 (J)  | 0.0033       | <0.001      | 0.035       |              |             |
| 8/16/2016  |              |              |             |             |              | 0.003       |
| 9/28/2016  | 0.00095 (J)  | 0.0026       | 0.00062 (J) | 0.033       |              | 0.0036      |
| 11/16/2016 | <0.001       | 0.0013       | <0.001      | 0.02        |              | 0.003       |
| 1/16/2017  | <0.001       |              |             |             |              |             |
| 1/17/2017  |              | <0.00125     | <0.001      | 0.022       |              |             |
| 1/19/2017  |              |              |             |             |              | 0.0024      |
| 3/2/2017   | <0.001       | 0.0015       | <0.001      | 0.021       |              | 0.0027      |
| 4/18/2017  | <0.001       | 0.00071 (J)  | <0.001      | 0.018       |              | 0.0024      |
| 7/13/2017  |              | 0.00066 (J)  |             |             |              |             |
| 3/29/2018  | <0.001       | 0.002        | <0.001      | 0.014       |              | 0.0023      |
| 6/12/2018  | <0.001       | 0.0017       | <0.001      |             |              |             |
| 6/13/2018  |              |              |             | 0.011       |              | 0.0021      |
| 10/9/2018  | <0.001       | 0.00072 (J)  | <0.001      |             |              |             |
| 10/10/2018 |              |              |             | 0.014       |              | 0.0024      |
| 1/28/2019  | <0.001       | <0.00125     |             |             |              |             |
| 1/29/2019  |              |              | <0.001      | 0.00972     | 0.0118       | 0.00255     |
| 3/25/2019  | <0.001       | 0.0022       | 0.00069 (J) |             | 0.0012 (J)   |             |
| 3/26/2019  |              |              |             | 0.0097      |              | 0.002       |
| 9/10/2019  | <0.001       | 0.0018       | 0.00039 (J) | 0.0085      | 0.0021       | 0.0018      |
| 1/28/2020  | <0.001       | 0.0014       | 0.00036 (J) | 0.0063      | 0.0028       |             |
| 1/29/2020  |              |              |             |             |              | 0.0021      |
| 3/9/2020   | <0.001       | 0.00073 (J)  |             |             |              |             |
| 3/10/2020  |              |              | 0.00031 (J) | 0.0093      | 0.0029       | 0.0019      |
| 9/16/2020  | <0.001       | 0.00069 (J)  | 0.00035 (J) | 0.0089      | 0.011        |             |
| 9/17/2020  |              |              |             |             |              | 0.002       |
| 3/23/2021  | 0.00033 (J)  | 0.0023       |             | 0.0089      | 0.0098       |             |
| 3/24/2021  |              |              | 0.00033 (J) |             |              | 0.0024      |
| 8/23/2021  | <0.001       | 0.00077 (J)  |             |             |              |             |
| 8/24/2021  |              |              | <0.001      | 0.0087      | 0.0021       |             |
| 8/25/2021  |              |              |             |             |              | 0.00092 (J) |
| 2/22/2022  | <0.001       | 0.0024       | 0.00052 (J) | 0.011       | 0.013        | 0.0014      |
| 8/2/2022   | <0.001       | 0.0022       | <0.001      | 0.0093      | 0.002        |             |
| 8/3/2022   |              |              |             |             |              | 0.0015      |
| 2/7/2023   | <0.001       | 0.0025       | <0.001      | 0.011       | 0.013        |             |
| 2/8/2023   |              |              |             |             |              | 0.0016      |
| 8/1/2023   | <0.001       | 0.0025       | <0.001      | 0.01        | 0.0046       | 0.0012      |

## Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             | 0.00143 (J) | <0.001      |
| 5/6/2016   |             | <0.001      | 0.00154 (J) |             |             |
| 6/21/2016  | 0.0015 (J)  | <0.001      | 0.0016 (J)  | 0.0009 (J)  | <0.001      |
| 8/15/2016  |             |             |             | 0.0012 (J)  | <0.001      |
| 8/16/2016  | 0.00082 (J) | <0.001      | 0.0017      |             |             |
| 9/28/2016  |             |             |             | 0.00084 (J) | <0.001      |
| 9/29/2016  | 0.0019      | <0.001      | 0.0013      |             |             |
| 11/16/2016 | 0.0017      | 0.00068 (J) | 0.0014      | <0.001      | <0.001      |
| 1/17/2017  |             |             | 0.00056 (J) | <0.001      | <0.001      |
| 1/18/2017  | 0.00096 (J) | <0.001      |             |             |             |
| 3/2/2017   | 0.00082 (J) | 0.00065 (J) | 0.0018      | 0.0009 (J)  | <0.001      |
| 4/18/2017  |             |             | 0.0018      | 0.0005 (J)  | 0.00059 (J) |
| 4/19/2017  |             | <0.001      |             |             |             |
| 4/25/2017  | <0.001      |             |             |             |             |
| 7/13/2017  | 0.00047 (J) |             |             |             |             |
| 3/29/2018  | 0.00053 (J) |             |             | 0.00066 (J) |             |
| 3/30/2018  |             | <0.001      | 0.0017      |             | <0.001      |
| 6/12/2018  | 0.00063 (J) |             |             |             |             |
| 6/13/2018  |             | <0.001      | 0.0015      | <0.001      | <0.001      |
| 10/10/2018 | 0.00098 (J) | <0.001      | 0.0016      | <0.001      | <0.001      |
| 1/29/2019  | <0.001      | <0.001      | 0.00143     | <0.001      | <0.001      |
| 3/26/2019  | 0.00079 (J) | <0.001      | 0.0012 (J)  | <0.001      | <0.001      |
| 9/10/2019  | 0.0011      | 0.00036 (J) | 0.0017      | 0.00074 (J) | 0.00056 (J) |
| 1/28/2020  | 0.00051 (J) |             |             | 0.00046 (J) |             |
| 1/29/2020  |             | 0.0004 (J)  | 0.0017      |             | 0.00047 (J) |
| 3/10/2020  | <0.001      | <0.001      | <0.005      | <0.001      | <0.001      |
| 9/16/2020  | <0.001      | <0.001      |             |             |             |
| 9/17/2020  |             |             | 0.0015      | 0.00045 (J) | <0.001      |
| 3/24/2021  | <0.001      | <0.001      | 0.0018      | 0.00046 (J) | 0.00099 (J) |
| 8/24/2021  |             | <0.001      | 0.0014      |             |             |
| 8/25/2021  | <0.001      |             |             | 0.00055 (J) | <0.001      |
| 2/22/2022  | 0.00089 (J) |             |             |             |             |
| 2/23/2022  |             | <0.001      | 0.0016      | 0.0004 (J)  | 0.00044 (J) |
| 8/2/2022   | 0.0015      |             |             |             |             |
| 8/3/2022   |             |             | 0.0016      | 0.00052 (J) |             |
| 8/4/2022   |             | <0.001      |             |             | 0.00075 (J) |
| 2/7/2023   | 0.00098 (J) |             | 0.0018      |             |             |
| 2/8/2023   |             | <0.001      |             | <0.001      | 0.001       |
| 8/1/2023   |             |             | 0.0017      |             | 0.00098 (J) |
| 8/2/2023   | <0.001      | <0.001      |             | <0.001      |             |

## Time Series

Constituent: Barium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 0.0376       |              |             | 0.0295      | 0.0595       |        |
| 5/6/2016   |              |              |             |             |              | 0.11   |
| 6/20/2016  | 0.033        | 0.091        | 0.031       |             |              |        |
| 6/21/2016  |              |              |             | 0.0539      |              | 0.165  |
| 8/15/2016  | 0.029        | 0.11         | 0.032       | 0.053       |              |        |
| 8/16/2016  |              |              |             |             |              | 0.094  |
| 9/28/2016  | 0.032        | 0.12         | 0.038       | 0.06        |              | 0.1    |
| 11/16/2016 | 0.027        | 0.11         | 0.035       | 0.052       |              | 0.096  |
| 1/16/2017  | 0.022        |              |             |             |              |        |
| 1/17/2017  |              | 0.11         | 0.039       | 0.051       |              |        |
| 1/19/2017  |              |              |             |             |              | 0.12   |
| 3/2/2017   | 0.027        | 0.11         | 0.037       | 0.043       |              | 0.097  |
| 4/18/2017  | 0.024        | 0.1          | 0.035       | 0.042       |              | 0.092  |
| 7/13/2017  |              | 0.087        |             |             |              |        |
| 3/29/2018  | 0.021        | 0.11         | 0.037       | 0.043       |              | 0.095  |
| 6/12/2018  | 0.025        | 0.068        | 0.036       |             |              |        |
| 6/13/2018  |              |              |             | 0.037       |              | 0.096  |
| 10/9/2018  | 0.024        | 0.072        | 0.034       |             |              |        |
| 10/10/2018 |              |              |             | 0.037       |              | 0.095  |
| 1/28/2019  | 0.0249       | 0.0834       |             |             |              |        |
| 1/29/2019  |              |              | 0.0363      | 0.0393      | 0.0421       | 0.107  |
| 3/25/2019  | 0.023        | 0.11         | 0.035       |             | 0.044        |        |
| 3/26/2019  |              |              |             | 0.033       |              | 0.096  |
| 9/10/2019  | 0.031        | 0.13         | 0.035       | 0.04        | 0.042        | 0.11   |
| 1/28/2020  | 0.025        | 0.13         | 0.034       | 0.034       | 0.037        |        |
| 1/29/2020  |              |              |             |             |              | 0.11   |
| 3/9/2020   | 0.023        | 0.094        |             |             |              |        |
| 3/10/2020  |              |              | 0.043       | 0.031       | 0.035        | 0.13   |
| 9/16/2020  | 0.025        | 0.078        | 0.037       | 0.028       | 0.034        |        |
| 9/17/2020  |              |              |             |             |              | 0.11   |
| 3/23/2021  | 0.02         | 0.13         |             | 0.028       | 0.031        |        |
| 3/24/2021  |              |              | 0.032       |             |              | 0.1    |
| 8/23/2021  | 0.024        | 0.096        |             |             |              |        |
| 8/24/2021  |              |              | 0.027       | 0.026       | 0.026        |        |
| 8/25/2021  |              |              |             |             |              | 0.11   |
| 2/22/2022  | 0.022        | 0.13         | 0.038       | 0.03        | 0.034        | 0.11   |
| 8/2/2022   | 0.018        | 0.12         | 0.031       | 0.034       | 0.023        |        |
| 8/3/2022   |              |              |             |             |              | 0.11   |
| 2/7/2023   | 0.021        | 0.1          | 0.028       | 0.03        | 0.032        |        |
| 2/8/2023   |              |              |             |             |              | 0.1    |
| 8/1/2023   | 0.021        | 0.12         | 0.037       | 0.029       | 0.029        | 0.1    |

## Time Series

Constituent: Barium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7     | MGWC-8 |
|------------|---------|--------|--------|------------|--------|
| 5/5/2016   |         |        |        | 0.039      | 0.0364 |
| 5/6/2016   |         | 0.0605 | 0.151  |            |        |
| 6/21/2016  | 0.0439  | 0.0613 | 0.174  | 0.0152     | 0.0386 |
| 8/15/2016  |         |        |        | 0.015      | 0.03   |
| 8/16/2016  | 0.041   | 0.052  | 0.13   |            |        |
| 9/28/2016  |         |        |        | 0.014      | 0.034  |
| 9/29/2016  | 0.052   | 0.053  | 0.14   |            |        |
| 11/16/2016 | 0.044   | 0.056  | 0.14   | 0.013      | 0.034  |
| 1/17/2017  |         |        | 0.16   | 0.014      | 0.038  |
| 1/18/2017  | 0.056   | 0.06   |        |            |        |
| 3/2/2017   | 0.04    | 0.056  | 0.15   | 0.013      | 0.037  |
| 4/18/2017  |         |        | 0.14   | 0.011      | 0.04   |
| 4/19/2017  |         | 0.051  |        |            |        |
| 4/25/2017  | 0.042   |        |        |            |        |
| 7/13/2017  | 0.043   |        |        |            |        |
| 3/29/2018  | 0.061   |        |        | 0.01       |        |
| 3/30/2018  |         | 0.049  | 0.13   |            | 0.041  |
| 6/12/2018  | 0.063   |        |        |            |        |
| 6/13/2018  |         | 0.05   | 0.14   | 0.0098     | 0.038  |
| 10/10/2018 | 0.071   | 0.046  | 0.13   | 0.011      | 0.035  |
| 1/29/2019  | 0.06    | 0.0496 | 0.138  | <0.0025    | 0.0344 |
| 3/26/2019  | 0.06    | 0.048  | 0.13   | 0.0086     | 0.032  |
| 9/10/2019  | 0.073   | 0.053  | 0.15   | 0.012      | 0.035  |
| 1/28/2020  | 0.069   |        |        | 0.012      |        |
| 1/29/2020  |         | 0.051  | 0.15   |            | 0.033  |
| 3/10/2020  | 0.056   | 0.049  | 0.15   | 0.013      | 0.036  |
| 9/16/2020  | 0.1     | 0.048  |        |            |        |
| 9/17/2020  |         |        | 0.16   | 0.0091 (J) | 0.028  |
| 3/24/2021  | 0.056   | 0.049  | 0.16   | 0.011      | 0.054  |
| 8/24/2021  |         | 0.047  | 0.16   |            |        |
| 8/25/2021  | 0.051   |        |        | 0.013      | 0.031  |
| 2/22/2022  | 0.067   |        |        |            |        |
| 2/23/2022  |         | 0.046  | 0.17   | 0.014      | 0.036  |
| 8/2/2022   | 0.057   |        |        |            |        |
| 8/3/2022   |         |        | 0.15   | 0.018      |        |
| 8/4/2022   |         | 0.042  |        |            | 0.043  |
| 2/7/2023   | 0.06    |        | 0.16   |            |        |
| 2/8/2023   |         | 0.044  |        | 0.02       | 0.052  |
| 8/1/2023   |         |        | 0.16   |            | 0.056  |
| 8/2/2023   | 0.055   | 0.04   |        | 0.015      |        |

## Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.0025      |              |             | <0.0025     |              |             |
| 5/6/2016   |              |              |             |             |              | <0.0025     |
| 6/20/2016  | 3.3E-05 (J)  | <0.0025      | <0.0025     |             |              |             |
| 6/21/2016  |              |              |             | <0.0025     |              | <0.0025     |
| 8/15/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              |             |
| 8/16/2016  |              |              |             |             |              | <0.0025     |
| 9/28/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 11/16/2016 | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 1/16/2017  | <0.0025      |              |             |             |              |             |
| 1/17/2017  |              | <0.0025      | <0.0025     | <0.0025     |              |             |
| 1/19/2017  |              |              |             |             |              | <0.0025     |
| 3/2/2017   | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 4/18/2017  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 7/13/2017  |              | <0.0025      |             |             |              |             |
| 3/29/2018  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 6/12/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 6/13/2018  |              |              |             | <0.0025     |              | <0.0025     |
| 10/9/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 10/10/2018 |              |              |             | <0.0025     |              | <0.0025     |
| 1/28/2019  | <0.0025      | <0.0025      |             |             |              |             |
| 1/29/2019  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 1/28/2020  | <0.0025      | 0.0004 (J)   | <0.0025     | <0.0025     | <0.0025      |             |
| 1/29/2020  |              |              |             |             |              | 0.00018 (J) |
| 3/9/2020   | 0.00045 (J)  | 0.00018 (J)  |             |             |              |             |
| 3/10/2020  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 9/16/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |             |
| 9/17/2020  |              |              |             |             |              | <0.0025     |
| 3/23/2021  | 0.00022 (J)  | <0.0025      |             | <0.0025     | <0.0025      |             |
| 3/24/2021  |              |              | <0.0025     |             |              | <0.0025     |
| 8/23/2021  | <0.0025      | <0.0025      |             |             |              |             |
| 8/24/2021  |              |              | <0.0025     | <0.0025     | <0.0025      |             |
| 8/25/2021  |              |              |             |             |              | <0.0025     |
| 2/22/2022  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 8/2/2022   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |             |
| 8/3/2022   |              |              |             |             |              | <0.0025     |
| 2/7/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |             |
| 2/8/2023   |              |              |             |             |              | <0.0025     |
| 8/1/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | <0.0025     |

## Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2  | MGWC-3      | MGWC-7  | MGWC-8      |
|------------|---------|---------|-------------|---------|-------------|
| 5/5/2016   |         |         |             | <0.0025 | <0.0025     |
| 5/6/2016   |         | <0.0025 | <0.0025     |         |             |
| 6/21/2016  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0004 (J)  |
| 8/15/2016  |         |         |             | <0.0025 | 0.00053 (J) |
| 8/16/2016  | <0.0025 | <0.0025 | <0.0025     |         |             |
| 9/28/2016  |         |         |             | <0.0025 | 0.00049 (J) |
| 9/29/2016  | <0.0025 | <0.0025 | <0.0025     |         |             |
| 11/16/2016 | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0004 (J)  |
| 1/17/2017  |         |         | <0.0025     | <0.0025 | 0.00084 (J) |
| 1/18/2017  | <0.0025 | <0.0025 |             |         |             |
| 3/2/2017   | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.00068 (J) |
| 4/18/2017  |         |         | <0.0025     | <0.0025 | 0.00067 (J) |
| 4/19/2017  |         | <0.0025 |             |         |             |
| 4/25/2017  | <0.0025 |         |             |         |             |
| 7/13/2017  | <0.0025 |         |             |         |             |
| 3/29/2018  | <0.0025 |         |             | <0.0025 |             |
| 3/30/2018  |         | <0.0025 | <0.0025     |         | 0.0015 (J)  |
| 6/12/2018  | <0.0025 |         |             |         |             |
| 6/13/2018  |         | <0.0025 | <0.0025     | <0.0025 | 0.0012 (J)  |
| 10/10/2018 | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0016 (J)  |
| 1/29/2019  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | <0.0025     |
| 1/28/2020  | <0.0025 |         |             | <0.0025 |             |
| 1/29/2020  |         | <0.0025 | 0.00031 (J) |         | 0.0019      |
| 3/10/2020  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | 0.0013 (J)  |
| 9/16/2020  | <0.0025 | <0.0025 |             |         |             |
| 9/17/2020  |         |         | <0.0025     | <0.0025 | 0.0019 (J)  |
| 3/24/2021  | <0.0025 | <0.0025 | <0.0025     | <0.0025 | <0.0025     |
| 8/24/2021  |         | <0.0025 | <0.0025     |         |             |
| 8/25/2021  | <0.0025 |         |             | <0.0025 | 0.0015 (J)  |
| 2/22/2022  | <0.0025 |         |             |         |             |
| 2/23/2022  |         | <0.0025 | <0.0025     | <0.0025 | 0.0014 (J)  |
| 8/2/2022   | <0.0025 |         |             |         |             |
| 8/3/2022   |         |         | <0.0025     | <0.0025 |             |
| 8/4/2022   |         | <0.0025 |             |         | 0.00064 (J) |
| 2/7/2023   | <0.0025 |         | <0.0025     |         |             |
| 2/8/2023   |         | <0.0025 |             | <0.0025 | 0.0002 (J)  |
| 8/1/2023   |         |         | <0.0025     |         | 0.00025 (J) |
| 8/2/2023   | <0.0025 | <0.0025 |             | <0.0025 |             |

## Time Series

Constituent: Boron (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | <0.08        |              |             | <0.08       | 0.157        |        |
| 5/6/2016   |              |              |             |             |              | 0.567  |
| 6/20/2016  | 0.011 (J)    | 0.017 (J)    | 0.013 (J)   |             |              |        |
| 6/21/2016  |              |              |             | 0.124       |              | 1.55   |
| 8/15/2016  | 0.022 (J)    | 0.032 (J)    | 0.023 (J)   | 0.18        |              |        |
| 8/16/2016  |              |              |             |             |              | 0.85   |
| 9/28/2016  | 0.023 (J)    | 0.021 (J)    | <0.08       | 0.17        |              | 0.7    |
| 11/16/2016 | <0.08        | <0.08        | <0.08       | 0.17        |              | 0.88   |
| 1/16/2017  | 0.021 (J)    |              | <0.08       | 0.17        |              |        |
| 1/17/2017  |              | <0.08        | <0.08       |             |              |        |
| 1/19/2017  |              |              |             |             |              | 1.5    |
| 3/2/2017   | <0.08        | <0.08        | <0.08       | 0.14        |              | 0.89   |
| 4/18/2017  | <0.08        | <0.08        | <0.08       | 0.14        |              | 1.1    |
| 7/13/2017  |              | <0.08        |             |             |              |        |
| 10/10/2017 | 0.021 (J)    | 0.025 (J)    | <0.08       | 0.12        |              | 1.9    |
| 6/12/2018  | <0.08        | <0.08        | <0.08       |             |              |        |
| 6/13/2018  |              |              |             | 0.11        |              | 1.2    |
| 10/9/2018  | <0.08        | <0.08        | <0.08       |             |              |        |
| 10/10/2018 |              |              |             | 0.096 (J)   |              | 1.2    |
| 1/29/2019  |              |              |             |             | <0.08        |        |
| 3/25/2019  | <0.08        | <0.08        | <0.08       |             | <0.08        |        |
| 3/26/2019  |              |              |             | 0.079 (J)   |              | 1.3    |
| 9/10/2019  | <0.08        | <0.08        | <0.08       | 0.097       | 0.04 (J)     | 1.5    |
| 3/9/2020   | 0.045 (J)    | <0.08        |             |             |              |        |
| 3/10/2020  |              |              | <0.08       | 0.051 (J)   | <0.08        | 1.9    |
| 9/16/2020  | <0.08        | 0.045 (J)    | <0.08       | 0.041 (J)   | 0.04 (J)     |        |
| 9/17/2020  |              |              |             |             |              | 1.8    |
| 3/23/2021  | <0.08        | 0.047 (J)    |             | <0.08       | <0.08        |        |
| 3/24/2021  |              |              | <0.08       |             |              | 0.57   |
| 8/23/2021  | <0.08        | 0.043 (J)    |             |             |              |        |
| 8/24/2021  |              |              | <0.08       | <0.08       | <0.08        |        |
| 8/25/2021  |              |              |             |             |              | 1.7    |
| 2/22/2022  | <0.08        | <0.08        | <0.08       | <0.08       | <0.08        | 1.7    |
| 8/2/2022   | <0.08        | <0.08        | <0.08       | <0.08       | <0.08        |        |
| 8/3/2022   |              |              |             |             |              | 1.7    |
| 2/7/2023   | <0.08        | 0.028 (J)    | 0.022 (J)   | 0.028 (J)   | 0.039 (J)    |        |
| 2/8/2023   |              |              |             |             |              | 1.5    |
| 8/1/2023   | 0.035 (J)    | 0.045 (J)    | 0.037 (J)   | 0.057 (J)   | 0.038 (J)    | 1.6    |

## Time Series

Constituent: Boron (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|------------|--------|--------|--------|--------|
| 5/5/2016   |            |        |        | 0.855  | 0.976  |
| 5/6/2016   |            | 3.78   | 0.926  |        |        |
| 6/21/2016  | 0.0201 (J) | 3.1    | 0.792  | 1.15   | 0.862  |
| 8/15/2016  |            |        |        | 1.3    | 0.8    |
| 8/16/2016  | 0.055      | 2.8    | 1      |        |        |
| 9/28/2016  |            |        |        | 1.3    | 0.8    |
| 9/29/2016  | <0.08      | 3.1    | 1      |        |        |
| 11/16/2016 | 0.055      | 3.9    | 1.2    | 1.3    | 0.98   |
| 1/17/2017  |            |        | 1.3    | 1.3    | 1.6    |
| 1/18/2017  | 0.097      | 3.7    |        |        |        |
| 3/2/2017   | 0.064      | 3.3    | 1.3    | 1.3    | 1.8    |
| 4/18/2017  |            |        | 1.8    | 1.5    | 2.4    |
| 4/19/2017  |            | 3.7    |        |        |        |
| 4/25/2017  | <0.08      |        |        |        |        |
| 7/13/2017  | <0.08      |        |        |        |        |
| 10/10/2017 | <0.08      | 3.4    | 1.7    | 1.4    | 4.2    |
| 6/12/2018  | <0.08      |        |        |        |        |
| 6/13/2018  |            | 3      | 1.6    | 1.4    | 4.9    |
| 10/10/2018 | 0.034 (J)  | 3      | 1.6    | 1.4    | 5.1    |
| 3/26/2019  | 0.032 (J)  | 2.6    | 1.5    | 1.5    | 5.1    |
| 9/10/2019  | 0.06 (J)   | 2.4    | 1.5    | 1.5    | 4.8    |
| 3/10/2020  | <0.08      | 2.3    | 1.3    | 1.4    | 4      |
| 9/16/2020  | <0.08      | 2.1    |        |        |        |
| 9/17/2020  |            |        | 1.2    | 1.4    | 4.4    |
| 3/24/2021  | <0.08      | 2.4    | 1.2    | 1.5    | 3.6    |
| 8/24/2021  |            | 2.2    | 0.97   |        |        |
| 8/25/2021  | 0.11       |        |        | 1.6    | 4.2    |
| 2/22/2022  | <0.08      |        |        |        |        |
| 2/23/2022  |            | 2      | 0.83   | 2.1    | 4.1    |
| 8/2/2022   | 0.071 (J)  |        | 0.76   | 2.3    |        |
| 8/3/2022   |            |        | 1.9    |        | 4.3    |
| 8/4/2022   |            |        |        |        |        |
| 2/7/2023   | 0.067 (J)  |        | 0.63   |        |        |
| 2/8/2023   |            | 1.8    |        | 2.1    | 3.9    |
| 8/1/2023   |            |        | 0.65   |        | 4.3    |
| 8/2/2023   | 0.062 (J)  | 1.8    |        | 2.2    |        |

## Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1       |
|------------|--------------|--------------|-------------|-------------|--------------|--------------|
| 5/5/2016   | <0.0025      |              |             | <0.0025     |              |              |
| 5/6/2016   |              |              |             |             |              | 0.000126 (J) |
| 6/20/2016  | <0.0025      | <0.0025      | <0.0025     |             |              |              |
| 6/21/2016  |              |              |             | <0.0025     |              | 0.0005 (J)   |
| 8/15/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              |              |
| 8/16/2016  |              |              |             |             |              | <0.0025      |
| 9/28/2016  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 11/16/2016 | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 1/16/2017  | <0.0025      |              |             |             |              |              |
| 1/17/2017  |              | <0.0025      | <0.0025     | <0.0025     |              |              |
| 1/19/2017  |              |              |             |             |              | <0.0025      |
| 3/2/2017   | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 4/18/2017  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 7/13/2017  |              | <0.0025      |             |             |              |              |
| 3/29/2018  | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025      |
| 6/12/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |              |
| 6/13/2018  |              |              |             | <0.0025     |              | <0.0025      |
| 10/9/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |              |
| 10/10/2018 |              |              |             | <0.0025     |              | <0.0025      |
| 1/28/2019  | <0.0025      | <0.0025      |             |             |              |              |
| 1/29/2019  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025      |
| 3/25/2019  | <0.0025      | <0.0025      | <0.0025     |             | <0.0025      |              |
| 3/26/2019  |              |              |             | <0.0025     |              | <0.0025      |
| 9/10/2019  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | 0.00017 (J)  |
| 1/28/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 1/29/2020  |              |              |             |             |              | <0.0025      |
| 3/9/2020   | 0.00023 (J)  | <0.0025      |             |             |              |              |
| 3/10/2020  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025      |
| 9/16/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 9/17/2020  |              |              |             |             |              | <0.0025      |
| 3/23/2021  | <0.0025      | <0.0025      |             | <0.0025     | <0.0025      |              |
| 3/24/2021  |              |              | <0.0025     |             |              | <0.0025      |
| 8/23/2021  | <0.0025      | <0.0025      |             |             |              |              |
| 8/24/2021  |              |              | <0.0025     | <0.0025     | <0.0025      |              |
| 8/25/2021  |              |              |             |             |              | <0.0025      |
| 2/22/2022  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | <0.0025      |
| 8/2/2022   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 8/3/2022   |              |              |             |             |              | 8.5E-05 (J)  |
| 2/7/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      |              |
| 2/8/2023   |              |              |             |             |              | 0.00012 (J)  |
| 8/1/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | <0.0025      | <0.0025      |

## Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2      | MGWC-3  | MGWC-7      | MGWC-8       |
|------------|---------|-------------|---------|-------------|--------------|
| 5/5/2016   |         |             |         | <0.0025     | 0.000784 (J) |
| 5/6/2016   |         | 0.00166     | <0.0025 |             |              |
| 6/21/2016  | <0.0025 | 0.0008 (J)  | <0.0025 | <0.0025     | 0.0003 (J)   |
| 8/15/2016  |         |             |         | <0.0025     | <0.0025      |
| 8/16/2016  | <0.0025 | 0.0034      | <0.0025 |             |              |
| 9/28/2016  |         |             |         | <0.0025     | <0.0025      |
| 9/29/2016  | <0.0025 | 0.0027      | <0.0025 |             |              |
| 11/16/2016 | <0.0025 | 0.0022 (J)  | <0.0025 | <0.0025     | <0.0025      |
| 1/17/2017  |         |             | <0.0025 | <0.0025     | <0.0025      |
| 1/18/2017  | <0.0025 | 0.008       |         |             |              |
| 3/2/2017   | <0.0025 | 0.005       | <0.0025 | <0.0025     | <0.0025      |
| 4/18/2017  |         |             | <0.0025 | <0.0025     | 0.00044 (J)  |
| 4/19/2017  |         | 0.0011 (J)  |         |             |              |
| 4/25/2017  | <0.0025 |             |         |             |              |
| 7/13/2017  | <0.0025 |             |         |             |              |
| 3/29/2018  | <0.0025 |             |         | <0.0025     |              |
| 3/30/2018  |         | 0.0016 (J)  | <0.0025 |             | 0.00058 (J)  |
| 6/12/2018  | <0.0025 |             |         |             |              |
| 6/13/2018  |         | 0.0016 (J)  | <0.0025 | <0.0025     | 0.00076 (J)  |
| 10/10/2018 | <0.0025 | 0.001 (J)   | <0.0025 | <0.0025     | 0.00035 (J)  |
| 1/29/2019  | <0.0025 | 0.00315     | <0.0025 | <0.0025     | <0.0025      |
| 3/26/2019  | <0.0025 | 0.0019 (J)  | <0.0025 | <0.0025     | 0.0005 (J)   |
| 9/10/2019  | <0.0025 | 0.0011      | <0.0025 | <0.0025     | 0.00079 (J)  |
| 1/28/2020  | <0.0025 |             |         | <0.0025     |              |
| 1/29/2020  |         | 0.0054      | <0.0025 |             | 0.0009 (J)   |
| 3/10/2020  | <0.0025 | 0.0011 (J)  | <0.0025 | <0.0025     | 0.0011 (J)   |
| 9/16/2020  | <0.0025 | 0.00053 (J) |         |             |              |
| 9/17/2020  |         |             | <0.0025 | 0.00023 (J) | 0.00072 (J)  |
| 3/24/2021  | <0.0025 | 0.0022 (J)  | <0.0025 | <0.0025     | 0.001 (J)    |
| 8/24/2021  |         | 0.00054 (J) | <0.0025 |             |              |
| 8/25/2021  | <0.0025 |             |         | <0.0025     | 0.0046       |
| 2/22/2022  | <0.0025 |             |         |             |              |
| 2/23/2022  |         | 0.0039      | <0.0025 | <0.0025     | 0.0014 (J)   |
| 8/2/2022   | <0.0025 |             |         |             |              |
| 8/3/2022   |         |             | <0.0025 | 0.00041 (J) |              |
| 8/4/2022   |         | 0.0002 (J)  |         |             | 0.0037       |
| 2/7/2023   | <0.0025 |             | <0.0025 |             |              |
| 2/8/2023   |         | 0.0021 (J)  |         | <0.0025     | 0.0018 (J)   |
| 8/1/2023   |         |             | <0.0025 |             | 0.002 (J)    |
| 8/2/2023   | <0.0025 | 0.00032 (J) |         | 0.00031 (J) |              |

## Time Series

Constituent: Calcium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 8.83         |              | 27          | 105         |              |        |
| 5/6/2016   |              |              |             |             |              | 92.5   |
| 6/20/2016  | 8.1          | 35.5         | 29.4        |             |              |        |
| 6/21/2016  |              |              |             | 91.2        |              | 119    |
| 8/15/2016  | 6.1          | 34           | 26          | 94          |              |        |
| 8/16/2016  |              |              |             |             |              | 84     |
| 9/28/2016  | 7.2          | 38           | 31          | 110         |              | 92     |
| 11/16/2016 | 5.2          | 33           | 26          | 98          |              | 83     |
| 1/16/2017  | 3.8          |              |             |             |              |        |
| 1/17/2017  |              | 34           | 29          | 100         |              |        |
| 1/19/2017  |              |              |             |             |              | 110    |
| 3/2/2017   | 5.4          | 35           | 28          | 100         |              | 89     |
| 4/18/2017  | 5            | 33           | 27          | 110         |              | 100    |
| 7/13/2017  |              | 30           |             |             |              |        |
| 10/10/2017 | 4.8          | 39           | 31          | 110         |              | 120    |
| 6/12/2018  | 4.8          | 26           | 25          |             |              |        |
| 6/13/2018  |              |              |             | 100         |              | 100    |
| 10/9/2018  | 4.5          | 29           | 29          |             |              |        |
| 10/10/2018 |              |              |             | 100         |              | 100    |
| 1/29/2019  |              |              |             |             | 95.1         |        |
| 3/25/2019  | 4.6          | 37           | 27          |             | 89           |        |
| 3/26/2019  |              |              |             | 100         |              | 100    |
| 9/10/2019  | 4.9          | 36           | 27          | 110         | 86           | 110    |
| 3/9/2020   | 4            | 32           |             |             |              |        |
| 3/10/2020  |              |              | 29          | 100         | 90           | 120    |
| 9/16/2020  | 6.8          | 30           | 28          | 100         | 93           |        |
| 9/17/2020  |              |              |             |             |              | 110    |
| 3/23/2021  | 4            | 42           |             | 110         | 97           |        |
| 3/24/2021  |              |              | 28          |             |              | 100    |
| 8/23/2021  | 5.8          | 34           |             |             |              |        |
| 8/24/2021  |              |              | 27          | 100         | 83           |        |
| 8/25/2021  |              |              |             |             |              | 120    |
| 2/22/2022  | 3.3          | 36           | 25          | 97          | 90           | 100    |
| 8/2/2022   | 3.1          | 36           | 26          | 110         | 94           |        |
| 8/3/2022   |              |              |             |             |              | 110    |
| 2/7/2023   | 3.6          | 34           | 26          | 110         | 99           |        |
| 2/8/2023   |              |              |             |             |              | 110    |
| 8/1/2023   | 3.9          | 39           | 28          | 110         | 110          | 110    |

## Time Series

Constituent: Calcium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 45     | 41.2   |
| 5/6/2016   |         | 131    | 109    |        |        |
| 6/21/2016  | 25.5    | 119    | 99.7   | 52.8   | 44.7   |
| 8/15/2016  |         |        |        | 50     | 27     |
| 8/16/2016  | 25      | 120    | 97     |        |        |
| 9/28/2016  |         |        |        | 58     | 32     |
| 9/29/2016  | 30      | 140    | 100    |        |        |
| 11/16/2016 | 26      | 120    | 94     | 50     | 27     |
| 1/17/2017  |         |        | 100    | 52     | 32     |
| 1/18/2017  | 32      | 130    |        |        |        |
| 3/2/2017   | 26      | 120    | 99     | 52     | 33     |
| 4/18/2017  |         |        | 120    | 56     | 59     |
| 4/19/2017  |         | 120    |        |        |        |
| 4/25/2017  | 26      |        |        |        |        |
| 7/13/2017  | 26      |        |        |        |        |
| 10/10/2017 | 28      | 130    | 110    | 56     | 74     |
| 6/12/2018  | 30      |        |        |        |        |
| 6/13/2018  |         | 120    | 100    | 51     | 84     |
| 10/10/2018 | 35      | 120    | 96     | 51     | 87     |
| 3/26/2019  | 33      | 110    | 99     | 52     | 96     |
| 9/10/2019  | 33      | 110    | 99     | 53     | 97     |
| 3/10/2020  | 30      | 110    | 110    | 55     | 100    |
| 9/16/2020  | 25      | 110    |        |        |        |
| 9/17/2020  |         |        | 110    | 48     | 100    |
| 3/24/2021  | 32      | 120    | 120    | 51     | 120    |
| 8/24/2021  |         | 110    | 110    |        |        |
| 8/25/2021  | 31      |        |        | 59     | 96     |
| 2/22/2022  | 35      |        |        |        |        |
| 2/23/2022  |         | 100    | 120    | 61     | 97     |
| 8/2/2022   | 34      |        |        |        |        |
| 8/3/2022   |         |        | 110    | 66     |        |
| 8/4/2022   |         | 98     |        |        | 100    |
| 2/7/2023   | 30      |        | 110    |        |        |
| 2/8/2023   |         | 100    |        | 65     | 110    |
| 8/1/2023   |         |        | 120    |        | 120    |
| 8/2/2023   | 31      | 100    |        | 57     |        |

## Time Series

Constituent: Chloride (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 7.35         |              | 6.51        | 9.67        |              |        |
| 5/6/2016   |              |              |             |             |              | 13.2   |
| 6/20/2016  | 7            | 4.3          | 5.9         |             |              |        |
| 6/21/2016  |              |              |             | 9.2         |              | 15     |
| 8/15/2016  | 7.5          | 4.1          | 6.4         | 10          |              |        |
| 8/16/2016  |              |              |             |             |              | 14     |
| 9/28/2016  | 7            | 3.9          | 6.1         | 10          |              | 14     |
| 11/16/2016 | 7.5          | 4.1          | 6.1         | 10          |              | 14     |
| 1/16/2017  | 7.7          |              |             |             |              |        |
| 1/17/2017  |              | 3.9          | 5.7         | 9.4         |              |        |
| 1/19/2017  |              |              |             |             |              | 14     |
| 3/2/2017   | 6.9          | 3.5          | 5.3         | 8.6         |              | 13     |
| 4/18/2017  | 6.8          | 3.7          | 5.3         | 8.9         |              | 13     |
| 7/13/2017  |              | 4.2          |             |             |              |        |
| 10/10/2017 | 6.9          | 3.4          | 5.3         | 8.3         |              | 14     |
| 6/12/2018  | 6.7          | 4.6          | 5.1         |             |              |        |
| 6/13/2018  |              |              |             | 7           |              | 13     |
| 10/9/2018  | 7.1          | 4.5          | 5.6         |             |              |        |
| 10/10/2018 |              |              |             | 6.9         |              | 14     |
| 1/29/2019  |              |              |             |             | 4.51         |        |
| 3/25/2019  | 6.8          | 3.4          | 4.7         |             | 4.4          |        |
| 3/26/2019  |              |              |             | 5.8         |              | 13     |
| 9/10/2019  | 7            | 3.5          | 5.1         | 6           | 4.2          | 13     |
| 3/9/2020   | 7.4          | 4.5          |             |             |              |        |
| 3/10/2020  |              |              | 5.4         | 5.1         | 4            | 14     |
| 9/16/2020  | 7            | 4.6          | 5.2         | 4.3         | 3.7          |        |
| 9/17/2020  |              |              |             |             |              | 14     |
| 3/23/2021  | 7.8          | 3.8          |             | 4           | 4.1          |        |
| 3/24/2021  |              |              | 5.5         |             |              | 14     |
| 8/23/2021  | 7.3          | 4.4          |             |             |              |        |
| 8/24/2021  |              |              | 5.5         | 4           | 3.9          |        |
| 8/25/2021  |              |              |             |             |              | 14     |
| 2/22/2022  | 7.1          | 3.1          | 5.1         | 4           | 3.3          | 13     |
| 8/2/2022   | 7.4          | 3.4          | 3.5         | 2.6         | 2.8          |        |
| 8/3/2022   |              |              |             |             |              | 13     |
| 2/7/2023   | 7            | 4.2          | 4.7         | 3.1         | 3.2          |        |
| 2/8/2023   |              |              |             |             |              | 12     |
| 8/1/2023   | 7.4          | 3.3          | 5.2         | 3.3         | 3.4          | 13     |

## Time Series

Constituent: Chloride (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 13     | 10.1   |
| 5/6/2016   |         | 41     | 12.5   |        |        |
| 6/21/2016  | 4.4     | 20     | 13     | 13     | 10     |
| 8/15/2016  |         |        |        | 14     | 9.5    |
| 8/16/2016  | 4.6     | 20     | 13     |        |        |
| 9/28/2016  |         |        |        | 13     | 9.2    |
| 9/29/2016  | 4.4     | 19     | 13     |        |        |
| 11/16/2016 | 4.5     | 20     | 14     | 13     | 9.5    |
| 1/17/2017  |         |        | 14     | 13     | 10     |
| 1/18/2017  | 4.2     | 18     |        |        |        |
| 3/2/2017   | 3.9     | 18     | 13     | 13     | 9.3    |
| 4/18/2017  |         |        |        | 13     | 10     |
| 4/19/2017  |         | 17     |        |        |        |
| 4/25/2017  | 4       |        |        |        |        |
| 7/13/2017  | 4       |        |        |        |        |
| 10/10/2017 | 4       | 16     | 14     | 12     | 11     |
| 6/12/2018  | 4       |        |        |        |        |
| 6/13/2018  |         | 16     | 13     | 12     | 11     |
| 10/10/2018 | 4.2     | 15     | 14     | 12     | 10     |
| 3/26/2019  | 3.8     | 14     | 14     | 11     | 11     |
| 9/10/2019  | 4.1     | 13     | 13     | 9.9    | 10     |
| 3/10/2020  | 4.1     | 12     | 15     | 10     | 12     |
| 9/16/2020  | 5.1     | 12     |        |        |        |
| 9/17/2020  |         |        | 14     | 9.6    | 10     |
| 3/24/2021  | 5.7     | 13     | 14     | 10     | 18     |
| 8/24/2021  |         | 13     | 14     |        |        |
| 8/25/2021  | 4.9     |        |        | 9.9    | 11     |
| 2/22/2022  | 4       |        |        |        |        |
| 2/23/2022  |         | 13     | 14     | 9.8    | 11     |
| 8/2/2022   | 4.9     |        |        |        |        |
| 8/3/2022   |         |        | 13     | 11     |        |
| 8/4/2022   |         | 12     |        |        | 13     |
| 2/7/2023   | 4.2     |        | 11     |        |        |
| 2/8/2023   |         | 11     |        | 11     | 13     |
| 8/1/2023   |         |        | 12     |        | 13     |
| 8/2/2023   | 4.5     | 12     |        | 11     |        |

## Time Series

Constituent: Chromium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1     |
|------------|--------------|--------------|-------------|-------------|--------------|------------|
| 5/5/2016   | 0.00249 (J)  |              | <0.002      | <0.002      |              |            |
| 5/6/2016   |              |              |             |             | <0.002       |            |
| 6/20/2016  | 0.0026 (J)   | 0.00066 (J)  | 0.00024 (J) |             |              |            |
| 6/21/2016  |              |              |             | <0.002      |              | <0.002     |
| 8/15/2016  | 0.0029       | <0.002       | <0.002      | <0.002      |              |            |
| 8/16/2016  |              |              |             |             |              | <0.002     |
| 9/28/2016  | 0.0027       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 11/16/2016 | 0.0026       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 1/16/2017  | 0.0029       |              |             |             |              |            |
| 1/17/2017  |              | <0.002       | <0.002      | <0.002      |              |            |
| 1/19/2017  |              |              |             |             |              | <0.002     |
| 3/2/2017   | 0.0063       | 0.003        | 0.0032      | 0.0032      |              | 0.0036     |
| 4/18/2017  | 0.0031       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 7/13/2017  |              | <0.002       |             |             |              |            |
| 3/29/2018  | 0.0039       | <0.002       | <0.002      | <0.002      |              | <0.002     |
| 6/12/2018  | 0.0038       | <0.002       | <0.002      |             |              |            |
| 6/13/2018  |              |              |             | <0.002      |              | <0.002     |
| 10/9/2018  | 0.0037       | <0.002       | <0.002      |             |              |            |
| 10/10/2018 |              |              |             | <0.002      |              | <0.002     |
| 1/28/2019  | 0.00545      | <0.002       |             |             |              |            |
| 1/29/2019  |              |              | <0.002      | <0.002      | <0.002       | <0.002     |
| 1/28/2020  | 0.0044       | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 1/29/2020  |              |              |             |             |              | <0.002     |
| 3/9/2020   | 0.0042       | <0.002       |             |             |              |            |
| 3/10/2020  |              |              | <0.002      | <0.002      | <0.002       | <0.002     |
| 9/16/2020  | 0.0039       | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 9/17/2020  |              |              |             |             |              | <0.002     |
| 3/23/2021  | 0.0043       | <0.002       |             | <0.002      | <0.002       |            |
| 3/24/2021  |              |              | <0.002      |             |              | <0.002     |
| 8/23/2021  | 0.0045       | <0.002       |             |             |              |            |
| 8/24/2021  |              |              | <0.002      | <0.002      | <0.002       |            |
| 8/25/2021  |              |              |             |             |              | <0.002     |
| 2/22/2022  | 0.0039       | <0.002       | <0.002      | <0.002      | <0.002       | <0.002     |
| 8/2/2022   | 0.003        | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 8/3/2022   |              |              |             |             |              | <0.002     |
| 2/7/2023   | 0.0053       | <0.002       | <0.002      | <0.002      | <0.002       |            |
| 2/8/2023   |              |              |             |             |              | 0.0014 (J) |
| 8/1/2023   | 0.0044       | <0.002       | <0.002      | <0.002      | <0.002       | <0.002     |

## Time Series

Constituent: Chromium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3 | MGWC-7     | MGWC-8     |
|------------|------------|--------|--------|------------|------------|
| 5/5/2016   |            |        |        | <0.002     | <0.002     |
| 5/6/2016   |            | <0.002 | <0.002 |            |            |
| 6/21/2016  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 8/15/2016  |            |        |        | <0.002     | <0.002     |
| 8/16/2016  | <0.002     | <0.002 | <0.002 |            |            |
| 9/28/2016  |            |        |        | <0.002     | <0.002     |
| 9/29/2016  | <0.002     | <0.002 | <0.002 |            |            |
| 11/16/2016 | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 1/17/2017  |            |        | <0.002 | <0.002     | <0.002     |
| 1/18/2017  | <0.002     | <0.002 |        |            |            |
| 3/2/2017   | 0.0032     | 0.0033 | 0.003  | 0.0034     | 0.0031     |
| 4/18/2017  |            |        | <0.002 | <0.002     | <0.002     |
| 4/19/2017  |            | <0.002 |        |            |            |
| 4/25/2017  | <0.002     |        |        |            |            |
| 7/13/2017  | <0.002     |        |        |            |            |
| 3/29/2018  | <0.002     |        |        | <0.002     |            |
| 3/30/2018  |            | <0.002 | <0.002 |            | <0.002     |
| 6/12/2018  | <0.002     |        |        |            |            |
| 6/13/2018  |            | <0.002 | <0.002 | <0.002     | <0.002     |
| 10/10/2018 | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 1/29/2019  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 1/28/2020  | <0.002     |        |        | 0.0015 (J) |            |
| 1/29/2020  |            | <0.002 | <0.002 |            | <0.002     |
| 3/10/2020  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 9/16/2020  | 0.029      | <0.002 |        |            |            |
| 9/17/2020  |            |        | <0.002 | <0.002     | <0.002     |
| 3/24/2021  | <0.002     | <0.002 | <0.002 | <0.002     | <0.002     |
| 8/24/2021  |            | <0.002 | <0.002 |            |            |
| 8/25/2021  | <0.002     |        |        | <0.002     | <0.002     |
| 2/22/2022  | <0.002     |        |        |            |            |
| 2/23/2022  |            | <0.002 | <0.002 | <0.002     | <0.002     |
| 8/2/2022   | <0.002     |        |        |            |            |
| 8/3/2022   |            |        | <0.002 | <0.002     |            |
| 8/4/2022   |            | <0.002 |        |            | <0.002     |
| 2/7/2023   | 0.0012 (J) |        | <0.002 |            |            |
| 2/8/2023   |            | <0.002 |        | 0.0013 (J) | 0.0013 (J) |
| 8/1/2023   |            |        | <0.002 |            | <0.002     |
| 8/2/2023   | <0.002     | <0.002 |        | <0.002     |            |

## Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.0025      |              |             | <0.0025     |              |             |
| 5/6/2016   |              |              |             |             |              | <0.0025     |
| 6/20/2016  | 0.00018 (J)  | 3.9E-05 (J)  | 1.2E-05 (J) |             | 0.0003 (J)   | 0.0012 (J)  |
| 6/21/2016  |              |              |             |             | 0.00049 (J)  | 0.00047 (J) |
| 8/15/2016  | <0.0025      | <0.0025      | <0.0025     |             |              | 0.00058 (J) |
| 8/16/2016  |              |              |             |             |              |             |
| 9/28/2016  | <0.0025      | <0.0025      | <0.0025     | 0.00043 (J) |              |             |
| 11/16/2016 | <0.0025      | <0.0025      | <0.0025     | <0.0025     |              | <0.0025     |
| 1/16/2017  | <0.0025      |              |             |             |              |             |
| 1/17/2017  |              | <0.0025      | <0.0025     | <0.0025     |              |             |
| 1/19/2017  |              |              |             |             | 0.0004 (J)   |             |
| 3/2/2017   | <0.0025      | <0.0025      | <0.0025     | 0.00046 (J) |              | <0.0025     |
| 4/18/2017  | <0.0025      | <0.0025      | <0.0025     | 0.00044 (J) |              | <0.0025     |
| 7/13/2017  |              | <0.0025      |             |             |              |             |
| 3/29/2018  | <0.0025      | <0.0025      | <0.0025     | 0.00065 (J) |              | <0.0025     |
| 6/12/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 6/13/2018  |              |              |             | <0.0025     |              | <0.0025     |
| 10/9/2018  | <0.0025      | <0.0025      | <0.0025     |             |              |             |
| 10/10/2018 |              |              |             | 0.00051 (J) |              | <0.0025     |
| 1/28/2019  | <0.0025      | <0.0025      |             |             |              |             |
| 1/29/2019  |              |              | <0.0025     | <0.0025     | <0.0025      | <0.0025     |
| 3/25/2019  | <0.0025      | <0.0025      | <0.0025     |             | <0.0025      |             |
| 3/26/2019  |              |              |             | <0.0025     |              | <0.0025     |
| 9/10/2019  | 0.00011 (J)  | <0.0025      | <0.0025     | 0.00037 (J) | 0.0002 (J)   | 0.00032 (J) |
| 1/28/2020  | <0.0025      | <0.0025      | <0.0025     | 0.00041 (J) | 0.00024 (J)  |             |
| 1/29/2020  |              |              |             |             | 0.00027 (J)  |             |
| 3/9/2020   | <0.0025      | <0.0025      |             |             |              |             |
| 3/10/2020  |              |              | <0.0025     | 0.00038 (J) | 0.00032 (J)  | <0.0025     |
| 9/16/2020  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | 0.00038 (J)  |             |
| 9/17/2020  |              |              |             |             |              | 0.0002 (J)  |
| 3/23/2021  | 0.00014 (J)  | <0.0025      |             | 0.00025 (J) | 0.00036 (J)  |             |
| 3/24/2021  |              |              | <0.0025     |             |              | <0.0025     |
| 8/23/2021  | <0.0025      | <0.0025      |             |             |              |             |
| 8/24/2021  |              |              | <0.0025     | <0.0025     | 0.0017 (J)   |             |
| 8/25/2021  |              |              |             |             |              | 0.00018 (J) |
| 2/22/2022  | <0.0025      | <0.0025      | <0.0025     | <0.0025     | 0.00049 (J)  | <0.0025     |
| 8/2/2022   | <0.0025      | <0.0025      | 0.012 (o)   | 0.0003 (J)  | 0.00034 (J)  |             |
| 8/3/2022   |              |              |             |             |              | <0.0025     |
| 2/7/2023   | <0.0025      | <0.0025      | <0.0025     | 0.00023 (J) | 0.00069 (J)  |             |
| 2/8/2023   |              |              |             |             |              | <0.0025     |
| 8/1/2023   | <0.0025      | <0.0025      | <0.0025     | <0.0025     | 0.00045 (J)  | <0.0025     |

## Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7     | MGWC-8      |
|------------|-------------|-------------|-------------|------------|-------------|
| 5/5/2016   |             |             |             | 0.0036 (J) | 0.00359 (J) |
| 5/6/2016   |             | 0.00311 (J) | <0.0025     |            |             |
| 6/21/2016  | <0.0025     | 0.0031 (J)  | 0.0006 (J)  | 0.0097 (J) | 0.0033 (J)  |
| 8/15/2016  |             |             |             | 0.0098     | 0.0038      |
| 8/16/2016  | <0.0025     | 0.0034      | 0.00064 (J) |            |             |
| 9/28/2016  |             |             |             | 0.0095     | 0.0043      |
| 9/29/2016  | <0.0025     | 0.0032      | 0.00054 (J) |            |             |
| 11/16/2016 | <0.0025     | 0.0032      | 0.00041 (J) | 0.0094     | 0.004       |
| 1/17/2017  |             |             | 0.00051 (J) | 0.0099     | 0.0051      |
| 1/18/2017  | <0.0025     | 0.0032      |             |            |             |
| 3/2/2017   | <0.0025     | 0.0042      | 0.00064 (J) | 0.013      | 0.0064      |
| 4/18/2017  |             |             | 0.00057 (J) | 0.0086     | 0.005       |
| 4/19/2017  |             | 0.0035      |             |            |             |
| 4/25/2017  | <0.0025     |             |             |            |             |
| 7/13/2017  | <0.0025     |             |             |            |             |
| 3/29/2018  | <0.0025     |             |             | 0.0088     |             |
| 3/30/2018  |             | 0.0037      | 0.00068 (J) |            | 0.015       |
| 6/12/2018  | <0.0025     |             |             |            |             |
| 6/13/2018  |             | 0.0035      | 0.00048 (J) | 0.0093     | 0.014       |
| 10/10/2018 | <0.0025     | 0.0034      | 0.00063 (J) | 0.012      | 0.018       |
| 1/29/2019  | <0.0025     | 0.00293     | <0.0025     | 0.0103     | 0.0159      |
| 3/26/2019  | <0.0025     | 0.003       | <0.0025     | 0.009      | 0.02        |
| 9/10/2019  | 0.00016 (J) | 0.0027      | 0.00065     | 0.011      | 0.019       |
| 1/28/2020  | <0.0025     |             |             | 0.008      |             |
| 1/29/2020  |             | 0.003       | 0.00067     |            | 0.025       |
| 3/10/2020  | <0.0025     | 0.0024 (J)  | 0.0005 (J)  | 0.0081     | 0.017       |
| 9/16/2020  | 0.0015 (J)  | 0.002 (J)   |             |            |             |
| 9/17/2020  |             |             | 0.00053 (J) | 0.0098     | 0.024       |
| 3/24/2021  | <0.0025     | 0.0019 (J)  | 0.00053 (J) | 0.0063     | 0.002 (J)   |
| 8/24/2021  |             | 0.0018 (J)  | 0.00034 (J) |            |             |
| 8/25/2021  | <0.0025     |             |             | 0.0032     | 0.021       |
| 2/22/2022  | <0.0025     |             |             |            |             |
| 2/23/2022  |             | 0.0016 (J)  | 0.0012 (J)  | 0.007      | 0.015       |
| 8/2/2022   | <0.0025     |             |             |            |             |
| 8/3/2022   |             |             | 0.00051 (J) | 0.0044     |             |
| 8/4/2022   |             | 0.0013 (J)  |             |            | 0.0092      |
| 2/7/2023   | <0.0025     |             | 0.0025      |            |             |
| 2/8/2023   |             | 0.0012 (J)  |             | 0.0044     | 0.0019 (J)  |
| 8/1/2023   |             |             | 0.00054 (J) |            | 0.0015 (J)  |
| 8/2/2023   | <0.0025     | 0.0011 (J)  |             | 0.0031     |             |

## Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 0.879        |              | 0.48        | 0.694       |              |        |
| 5/6/2016   |              |              |             |             |              | 1.07   |
| 6/20/2016  | 0.305 (U)    | 0.556 (U)    | 0.184       |             | 0.511 (U)    | 2.01   |
| 8/15/2016  | 0.577        | 0.72         | 0.577       | 0.467       |              | 1.12   |
| 8/16/2016  |              |              |             |             |              |        |
| 9/28/2016  | 0.77         | 0.521 (U)    | 0.107 (U)   | 0.926       |              | 1.09   |
| 11/16/2016 | 0.427 (U)    | 0.322 (U)    | 0.333 (U)   | 0.863       |              | 1.58   |
| 1/16/2017  | 1.1          |              |             |             |              |        |
| 1/17/2017  |              | 1.26         | 0.511 (U)   | 0.82        |              |        |
| 1/19/2017  |              |              |             |             |              | 1.64   |
| 3/2/2017   | 1.01         | 0.47         | 0.105 (U)   | 0.236 (U)   |              | 1.08   |
| 4/18/2017  | 0.635        | 0.233 (U)    | 0.279 (U)   | 0.316 (U)   |              | 1.23   |
| 7/13/2017  |              | 0.679        |             |             |              |        |
| 3/29/2018  | 0.799        | 0.723        | 0.37        | 0.6         |              | 1.21   |
| 6/12/2018  | 0.313 (U)    | 0.105 (U)    | 0.133 (U)   |             | 0.349 (U)    | 1.09   |
| 6/13/2018  |              |              |             |             |              |        |
| 10/9/2018  | 1.11         | 0.65         | 0.85        |             |              |        |
| 10/10/2018 |              |              |             | 1.01        |              | 1.95   |
| 1/28/2019  | 0.872        | 0.478        |             |             |              |        |
| 1/29/2019  |              |              | 0.275 (U)   | 0.591       | 0.874        | 1.11   |
| 3/25/2019  | 0.526        | 0.717        | 0.629       |             | 0.646        |        |
| 3/26/2019  |              |              |             | 0.4         |              | 1      |
| 9/10/2019  | 0.612        | 0.377 (U)    | 0.354 (U)   | 0.481       | 0.988        | 1.26   |
| 1/28/2020  | 0.322 (U)    | 0.528        | 0.0677 (U)  | 0.374 (U)   | 0.0609 (U)   |        |
| 1/29/2020  |              |              |             |             |              | 1.39   |
| 3/9/2020   | 0.761        | 0.00483 (U)  |             |             |              |        |
| 3/10/2020  |              |              | 0.0594 (U)  | 0.41 (U)    | 0.528        | 1.4    |
| 9/16/2020  | 0.969        | 0.583        | 0.821       | -0.0651 (U) | 1.13         |        |
| 9/17/2020  |              |              |             |             |              | 1.79   |
| 12/7/2020  |              |              | 0.979       |             |              |        |
| 12/8/2020  |              |              |             |             |              | 1.87   |
| 3/23/2021  | 0.657        | 0.409 (U)    |             | 0.542       | 0.612        |        |
| 3/24/2021  |              |              | 0.206 (U)   |             |              | 1.81   |
| 8/23/2021  | 0.752        | 1.19         |             |             |              |        |
| 8/24/2021  |              |              | 0.521 (U)   | 0.678       | 0.596        |        |
| 8/25/2021  |              |              |             |             |              | 2.12   |
| 2/22/2022  | 1.06         | 0.837        | 0.511       | 0.594       | 0.728        | 1.85   |
| 8/2/2022   | 0.239 (U)    | 0.967        | 0.35 (U)    | 0.683       | 0.42 (U)     |        |
| 8/3/2022   |              |              |             |             |              | 2.2    |
| 2/7/2023   | 0.671        | 0.858        | 0.0887 (U)  | 0.487 (U)   | 0.701        |        |
| 2/8/2023   |              |              |             |             |              | 1.77   |
| 8/1/2023   | 0.546 (U)    | 1.87         | 0.982       | 1.27        | 1.44         | 1.61   |

## Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12   | MGWC-2     | MGWC-3    | MGWC-7 | MGWC-8    |
|------------|-----------|------------|-----------|--------|-----------|
| 5/5/2016   |           |            |           | 0.75   | 1.21      |
| 5/6/2016   |           | 0.633      | 1.41      |        |           |
| 6/21/2016  | 0.292 (U) | 1.19 (U)   | 1.71      | 1.01   | 0.895 (U) |
| 8/15/2016  |           |            |           | 1.3    | 1.64      |
| 8/16/2016  | 0.232 (U) | 0.516      | 1.75      |        |           |
| 9/28/2016  |           |            |           | 1.06   | 2.17      |
| 9/29/2016  | 1.11      | 0.665      | 1.43      |        |           |
| 11/16/2016 | 0.798     | 0.694      | 1.9       | 0.855  | 1.49      |
| 1/17/2017  |           |            | 1.9       | 1.59   | 1.75      |
| 1/18/2017  | 0.302 (U) | 0.688      |           |        |           |
| 3/2/2017   | 0.437     | 0.484      | 1.37      | 1.4    | 1.03      |
| 4/18/2017  |           |            | 1.42      | 0.684  | 1.83      |
| 4/19/2017  |           | 0.599      |           |        |           |
| 4/25/2017  | 0.391     |            |           |        |           |
| 7/13/2017  | 0.47      |            |           |        |           |
| 3/29/2018  | 0.736     |            |           | 0.822  |           |
| 3/30/2018  |           | 0.677      | 1.43      |        | 2.15      |
| 6/12/2018  | 0.438     |            |           |        |           |
| 6/13/2018  |           | 0.272 (U)  | 1.27      | 0.716  | 1.51      |
| 10/10/2018 | 0.371     | 0.336      | 1.54      | 1.51   | 2.72      |
| 1/29/2019  | 0.639     | 0.719      | 1.34      | 1.7    | 1.93      |
| 3/26/2019  | 0.607     | 0.41 (U)   | 1.25      | 0.784  | 1.79      |
| 9/10/2019  | 0.939     | 0.548      | 1.6       | 0.958  | 1.78      |
| 1/28/2020  | 0.465     |            |           | 1.38   |           |
| 1/29/2020  |           | 0.0985 (U) | 1.44      |        | 1.61      |
| 3/10/2020  | 0.34 (U)  | 0.589      | 1.32      | 0.903  | 1.95      |
| 9/16/2020  | 1.09      | 1.11       |           |        |           |
| 9/17/2020  |           |            | 0.666 (U) | 1.28   | 1.56      |
| 12/8/2020  |           |            | 1.65      |        |           |
| 3/24/2021  | 0.434 (U) | 0.625      | 1.58      | 1.2    | 0.636     |
| 8/24/2021  |           | 0.313 (U)  | 1.65      |        |           |
| 8/25/2021  | 0.563     |            |           | 0.767  | 2.13      |
| 2/22/2022  | 0.888     |            |           |        |           |
| 2/23/2022  |           | 0.598      | 1.47      | 1.42   | 2.62      |
| 8/2/2022   | 1.08      |            |           |        |           |
| 8/3/2022   |           |            | 2.56      | 1.11   |           |
| 8/4/2022   |           | 0.632      |           |        | 1.24      |
| 2/7/2023   | 0.849     |            | 2.14      |        |           |
| 2/8/2023   |           | 0.799      |           | 1.88   | 1.11      |
| 8/1/2023   |           |            | 2.07      |        | 0.872     |
| 8/2/2023   | 0.432 (U) | 1.09       |           | 1.46   |           |

## Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1    |
|------------|--------------|--------------|-------------|-------------|--------------|-----------|
| 5/5/2016   | 0.046 (J)    |              | 0.132 (J)   | 0.091 (J)   |              |           |
| 5/6/2016   |              |              |             |             | 0.28 (J)     |           |
| 6/20/2016  | <0.1         | 0.06 (J)     | 0.05 (J)    |             |              |           |
| 6/21/2016  |              |              |             | 0.08 (J)    |              | 0.36      |
| 8/15/2016  | <0.1         | 0.1 (J)      | 0.1 (J)     | <0.2        |              |           |
| 8/16/2016  |              |              |             |             |              | 0.27      |
| 9/28/2016  | <0.1         | 0.097 (J)    | 0.11 (J)    | 0.084 (J)   |              | 0.26      |
| 11/16/2016 | <0.1         | 0.12 (J)     | 0.093 (J)   | 0.084 (J)   |              | 0.24      |
| 1/16/2017  | <0.1         |              |             |             |              |           |
| 1/17/2017  |              | 0.11 (J)     | 0.095 (J)   | 0.099 (J)   |              |           |
| 1/19/2017  |              |              |             |             |              | 0.22      |
| 3/2/2017   | 0.12 (J)     | 0.18 (J)     | 0.16 (J)    | 0.15 (J)    |              | 0.27      |
| 4/18/2017  | <0.1         | 0.11 (J)     | <0.1        | <0.2        |              | 0.2       |
| 7/13/2017  |              | 0.12 (J)     |             |             |              |           |
| 10/10/2017 | <0.1         | 0.086 (J)    | <0.1        | <0.2        |              | 0.18 (J)  |
| 3/29/2018  | <0.1         | <0.1         | 0.084 (J)   | <0.2        |              | 0.16 (J)  |
| 6/12/2018  | <0.1         | 0.16 (J)     | <0.1        |             |              |           |
| 6/13/2018  |              |              |             | <0.2        |              | 0.14 (J)  |
| 10/9/2018  | <0.1         | 0.16 (J)     | 0.086 (J)   |             |              |           |
| 10/10/2018 |              |              |             | <0.2        |              | 0.17 (J)  |
| 1/29/2019  |              |              |             |             | <0.1         |           |
| 3/25/2019  | <0.1         | 0.087 (J)    | 0.072 (J)   |             | 0.067 (J)    |           |
| 3/26/2019  |              |              |             | 0.065 (J)   |              | 0.16      |
| 9/10/2019  | 0.044 (J)    | 0.075 (J)    | 0.068 (J)   | 0.076 (J)   | 0.052 (J)    | 0.098 (J) |
| 3/9/2020   | 0.061 (J)    | 0.19         |             |             |              |           |
| 3/10/2020  |              |              | 0.055 (J)   | 0.045 (J)   | 0.048 (J)    | 0.086 (J) |
| 9/16/2020  | 0.042 (J)    | 0.18         | 0.08 (J)    | 0.076 (J)   | 0.078 (J)    |           |
| 9/17/2020  |              |              |             |             |              | 0.15      |
| 3/23/2021  | 0.038 (J)    | 0.081 (J)    |             | 0.082 (J)   | 0.096 (J)    |           |
| 3/24/2021  |              |              | 0.091 (J)   |             |              | 0.27      |
| 8/23/2021  | 0.048 (J)    | 0.12         |             |             |              |           |
| 8/24/2021  |              |              | 0.1         | 0.1         | 0.11         |           |
| 8/25/2021  |              |              |             |             |              | 0.097 (J) |
| 2/22/2022  | <0.1         | <0.1         | <0.1        | 0.034 (J)   | <0.1         | 0.047 (J) |
| 8/2/2022   | <0.1         | 0.065 (J)    | 0.066 (J)   | 0.055 (J)   | 0.052 (J)    |           |
| 8/3/2022   |              |              |             |             |              | 0.12      |
| 2/7/2023   | <0.1         | 0.07 (J)     | 0.069 (J)   | 0.06 (J)    | 0.064 (J)    |           |
| 2/8/2023   |              |              |             |             |              | 0.11      |
| 8/1/2023   | <0.1         | 0.094 (J)    | 0.094 (J)   | 0.084 (J)   | 0.081 (J)    | 0.15      |

## Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12   | MGWC-2    | MGWC-3    | MGWC-7   | MGWC-8    |
|------------|-----------|-----------|-----------|----------|-----------|
| 5/5/2016   |           |           |           | 0.394    | 0.103 (J) |
| 5/6/2016   |           | 0.088 (J) | 0.086 (J) |          |           |
| 6/21/2016  | 0.14 (J)  | 0.19 (J)  | 0.23 (J)  | 0.49     | 0.1 (J)   |
| 8/15/2016  |           |           |           | 0.44     | 0.11 (J)  |
| 8/16/2016  | 0.29      | 0.087 (J) | <0.2      |          |           |
| 9/28/2016  |           |           |           | 0.4      | 0.1 (J)   |
| 9/29/2016  | 0.26      | <0.2      | 0.082 (J) |          |           |
| 11/16/2016 | 0.25      | <0.2      | 0.087 (J) | 0.36     | 0.091 (J) |
| 1/17/2017  |           |           | 0.086 (J) | 0.2      | <0.082    |
| 1/18/2017  | 0.26      | <0.2      |           |          |           |
| 3/2/2017   | 0.28      | 0.15 (J)  | 0.15 (J)  | 0.36     | 0.16 (J)  |
| 4/18/2017  |           |           | <0.2      | 0.29     | <0.082    |
| 4/19/2017  |           | <0.2      |           |          |           |
| 4/25/2017  | 0.25      |           |           |          |           |
| 7/13/2017  | 0.21      |           |           |          |           |
| 10/10/2017 | 0.22      | <0.2      | <0.2      | 0.28     | <0.082    |
| 3/29/2018  | 0.23      |           |           | 0.23     |           |
| 3/30/2018  |           | <0.2      | <0.2      |          | 0.088 (J) |
| 6/12/2018  | 0.23      |           |           |          |           |
| 6/13/2018  |           | <0.2      | <0.2      | 0.2      | 0.15 (J)  |
| 10/10/2018 | 0.25      | 0.085 (J) | <0.2      | 0.23     | 0.11 (J)  |
| 3/26/2019  | 0.22      | 0.076 (J) | 0.072 (J) | 0.19 (J) | 0.088 (J) |
| 9/10/2019  | 0.2       | 0.07 (J)  | 0.073 (J) | 0.15     | 0.083 (J) |
| 3/10/2020  | 0.15      | 0.05 (J)  | 0.058 (J) | 0.18     | 0.084 (J) |
| 9/16/2020  | 0.26      | 0.076 (J) |           |          |           |
| 9/17/2020  |           |           | 0.083 (J) | 0.25     | 0.11      |
| 3/24/2021  | 0.27      | 0.11      | 0.092 (J) | 0.35     | 0.11      |
| 8/24/2021  |           | 0.095 (J) | 0.11      |          |           |
| 8/25/2021  | 0.19      |           |           | 0.15     | 0.038 (J) |
| 2/22/2022  | 0.093 (J) |           |           |          |           |
| 2/23/2022  |           | 0.075 (J) | 0.086 (J) | 0.22     | 0.05 (J)  |
| 8/2/2022   | 0.074 (J) |           |           |          |           |
| 8/3/2022   |           |           | 0.079 (J) | 0.2      |           |
| 8/4/2022   |           | 0.072 (J) |           |          | 0.087 (J) |
| 2/7/2023   | 0.25      |           | 0.076 (J) |          |           |
| 2/8/2023   |           | 0.074 (J) |           | 0.14     | 0.084 (J) |
| 8/1/2023   |           |           | 0.1       |          | 0.11      |
| 8/2/2023   | 0.25      | 0.087 (J) |           | 0.2      |           |

## Time Series

Constituent: Lead (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | <0.001       |              | <0.001      | <0.001      |              |        |
| 5/6/2016   |              |              |             |             |              | <0.001 |
| 6/20/2016  | <0.001       | 8.7E-05 (J)  | <0.001      |             |              |        |
| 6/21/2016  |              |              |             | <0.001      |              | <0.001 |
| 8/15/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              |        |
| 8/16/2016  |              |              |             |             |              | <0.001 |
| 9/28/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 11/16/2016 | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 1/16/2017  | <0.001       |              |             |             |              |        |
| 1/17/2017  |              | <0.001       | <0.001      | <0.001      |              |        |
| 1/19/2017  |              |              |             |             |              | <0.001 |
| 3/2/2017   | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 4/18/2017  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 7/13/2017  |              | <0.001       |             |             |              |        |
| 3/29/2018  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001 |
| 1/28/2019  | <0.001       | <0.001       |             |             |              |        |
| 1/29/2019  |              |              | <0.001      | <0.001      | <0.001       | <0.001 |
| 1/28/2020  | <0.001       | 0.00016 (J)  | 0.00018 (J) | <0.001      | <0.001       |        |
| 1/29/2020  |              |              |             |             |              | <0.001 |
| 3/9/2020   | <0.001       | <0.001       |             |             |              |        |
| 3/10/2020  |              |              | <0.001      | <0.001      | <0.001       | <0.001 |
| 9/16/2020  | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |        |
| 9/17/2020  |              |              |             |             |              | <0.001 |
| 3/23/2021  | 0.00013 (J)  | 0.00013 (J)  |             | <0.001      | <0.001       |        |
| 3/24/2021  |              |              | <0.001      |             |              | <0.001 |
| 8/23/2021  | <0.001       | <0.001       |             |             |              |        |
| 8/24/2021  |              |              | <0.001      | <0.001      | <0.001       |        |
| 8/25/2021  |              |              |             |             |              | <0.001 |
| 2/22/2022  | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       | <0.001 |
| 8/2/2022   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |        |
| 8/3/2022   |              |              |             |             |              | <0.001 |
| 2/7/2023   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |        |
| 2/8/2023   |              |              |             |             |              | <0.001 |
| 8/1/2023   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       | <0.001 |

## Time Series

Constituent: Lead (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2 | MGWC-3 | MGWC-7      | MGWC-8      |
|------------|------------|--------|--------|-------------|-------------|
| 5/5/2016   |            |        |        | <0.001      | <0.001      |
| 5/6/2016   |            | <0.001 | <0.001 |             |             |
| 6/21/2016  | 0.0001 (J) | <0.001 | <0.001 | 0.0003 (J)  | <0.001      |
| 8/15/2016  |            |        |        | <0.001      | <0.001      |
| 8/16/2016  | <0.001     | <0.001 | <0.001 |             |             |
| 9/28/2016  |            |        |        | <0.001      | <0.001      |
| 9/29/2016  | <0.001     | <0.001 | <0.001 |             |             |
| 11/16/2016 | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 1/17/2017  |            |        | <0.001 | <0.001      | <0.001      |
| 1/18/2017  | <0.001     | <0.001 |        |             |             |
| 3/2/2017   | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 4/18/2017  |            |        | <0.001 | <0.001      | <0.001      |
| 4/19/2017  |            | <0.001 |        |             |             |
| 4/25/2017  | <0.001     |        |        |             |             |
| 7/13/2017  | <0.001     |        |        |             |             |
| 3/29/2018  | <0.001     |        |        | <0.001      |             |
| 3/30/2018  |            | <0.001 | <0.001 |             | <0.001      |
| 1/29/2019  | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 1/28/2020  | <0.001     |        |        | <0.001      |             |
| 1/29/2020  |            | <0.001 | <0.001 |             | <0.001      |
| 3/10/2020  | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 9/16/2020  | <0.001     | <0.001 |        |             |             |
| 9/17/2020  |            |        | <0.001 | <0.001      | <0.001      |
| 3/24/2021  | <0.001     | <0.001 | <0.001 | <0.001      | <0.001      |
| 8/24/2021  |            | <0.001 | <0.001 |             |             |
| 8/25/2021  | <0.001     |        |        | 0.00019 (J) | 0.00022 (J) |
| 2/22/2022  | <0.001     |        |        |             |             |
| 2/23/2022  |            | <0.001 | <0.001 | <0.001      | <0.001      |
| 8/2/2022   | <0.001     |        |        |             |             |
| 8/3/2022   |            |        | <0.001 | 0.00021 (J) |             |
| 8/4/2022   |            | <0.001 |        |             | <0.001      |
| 2/7/2023   | <0.001     |        | <0.001 |             |             |
| 2/8/2023   |            | <0.001 |        | <0.001      | <0.001      |
| 8/1/2023   |            |        | <0.001 |             | <0.001      |
| 8/2/2023   | <0.001     | <0.001 |        | <0.001      |             |

## Time Series

Constituent: Lithium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1     |
|------------|--------------|--------------|-------------|-------------|--------------|------------|
| 5/5/2016   | <0.05        |              | <0.05       | <0.005      |              |            |
| 5/6/2016   |              |              |             |             |              | 0.0128 (J) |
| 6/20/2016  | 0.0071 (J)   | 0.014 (J)    | 0.0065 (J)  | <0.005      |              | 0.0102 (J) |
| 8/15/2016  | 0.0065       | 0.02         | 0.0059      | <0.005      |              |            |
| 8/16/2016  |              |              |             |             |              | 0.012      |
| 9/28/2016  | 0.0075       | 0.019        | 0.0075      | <0.005      |              | 0.012      |
| 11/16/2016 | 0.0081       | 0.021        | 0.0094      | <0.005      |              | 0.013      |
| 1/16/2017  | 0.0076       |              | 0.01        | <0.005      |              |            |
| 1/17/2017  |              | 0.02         |             |             |              | 0.011      |
| 1/19/2017  |              |              |             |             |              |            |
| 3/2/2017   | 0.0073       | 0.019        | 0.0076      | <0.005      |              | 0.013      |
| 4/18/2017  | 0.006        | 0.016        | 0.008       | <0.005      |              | 0.0097     |
| 7/13/2017  |              | 0.011        |             |             |              |            |
| 3/29/2018  | 0.01 (J)     | 0.03 (J)     | 0.014 (J)   | <0.005      |              | 0.017 (J)  |
| 6/12/2018  | 0.0068       | 0.012        | 0.0095      | <0.005      |              |            |
| 6/13/2018  |              |              |             |             |              | 0.0094     |
| 10/9/2018  | 0.0082       | 0.015        | 0.011       |             |              |            |
| 10/10/2018 |              |              |             | <0.005      |              | 0.011      |
| 1/28/2019  | 0.00821      | 0.0124       |             |             |              |            |
| 1/29/2019  |              |              | 0.00987     | <0.005      | 0.0184       | 0.0109     |
| 3/25/2019  | 0.0068       | 0.026        | 0.01        |             | 0.0052       |            |
| 3/26/2019  |              |              |             | <0.005      |              | 0.01       |
| 9/10/2019  | 0.011        | 0.026        | 0.011       | 0.0051      | 0.0062       | 0.012      |
| 1/28/2020  | 0.0064       | 0.026        | 0.0093      | <0.005      | <0.005       |            |
| 1/29/2020  |              |              |             |             |              | 0.0096     |
| 3/9/2020   | 0.0088       | 0.017        |             |             |              |            |
| 3/10/2020  |              |              | 0.011       | <0.005      | <0.005       | <0.025     |
| 9/16/2020  | 0.0079       | 0.014        | 0.0094      | <0.005      | <0.005       |            |
| 9/17/2020  |              |              |             |             |              | 0.0086     |
| 3/23/2021  | 0.0084       | 0.026        |             | <0.005      | <0.005       |            |
| 3/24/2021  |              |              | 0.0097      |             |              | 0.013      |
| 8/23/2021  | 0.0075       | 0.018        |             |             |              |            |
| 8/24/2021  |              |              | 0.0093      | <0.005      | <0.005       |            |
| 8/25/2021  |              |              |             |             |              | 0.0096     |
| 2/22/2022  | 0.0079       | 0.027        | 0.011       | <0.005      | 0.0012 (J)   | 0.01       |
| 8/2/2022   | 0.0071       | 0.025        | 0.0097      | <0.005      | <0.005       |            |
| 8/3/2022   |              |              |             |             |              | 0.01       |
| 2/7/2023   | 0.0081       | 0.022        | 0.011       | <0.005      | <0.005       |            |
| 2/8/2023   |              |              |             |             |              | 0.01       |
| 8/1/2023   | 0.0053       | 0.024        | 0.0077      | <0.005      | <0.005       | 0.0084     |

## Time Series

Constituent: Lithium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-2     | MGWC-3     | MGWC-7   | MGWC-8     |
|------------|------------|------------|------------|----------|------------|
| 5/5/2016   |            |            |            | 0.0586   | 0.0252 (J) |
| 5/6/2016   |            | <0.05      | 0.0113 (J) |          |            |
| 6/21/2016  | 0.0112 (J) | 0.0047 (J) | 0.0103 (J) | 0.122    | 0.0228 (J) |
| 8/15/2016  |            |            |            | 0.12     | 0.026      |
| 8/16/2016  | 0.014      | 0.0043 (J) | 0.01       |          |            |
| 9/28/2016  |            |            |            | 0.12     | 0.026      |
| 9/29/2016  | 0.017      | 0.0048 (J) | 0.01       |          |            |
| 11/16/2016 | 0.016      | 0.0058     | 0.014      | 0.13     | 0.031      |
| 1/17/2017  |            |            | 0.014      | 0.14     | 0.032      |
| 1/18/2017  | 0.015      | 0.0051     |            |          |            |
| 3/2/2017   | 0.015      | 0.0061     | 0.013      | 0.13     | 0.031      |
| 4/18/2017  |            |            | 0.01       | 0.11     | 0.023      |
| 4/19/2017  |            | 0.0042 (J) |            |          |            |
| 4/25/2017  | 0.013      |            |            |          |            |
| 7/13/2017  | 0.014      |            |            |          |            |
| 3/29/2018  | 0.032 (J)  |            |            | 0.17 (J) |            |
| 3/30/2018  |            | 0.008 (J)  | 0.017 (J)  |          | 0.058 (J)  |
| 6/12/2018  | 0.019      |            |            |          |            |
| 6/13/2018  |            | 0.0054     | 0.011      | 0.12     | 0.035      |
| 10/10/2018 | 0.027      | 0.0055     | 0.013      | 0.13     | 0.046      |
| 1/29/2019  | 0.0172     | 0.00537    | 0.0106     | 0.112    | 0.0361     |
| 3/26/2019  | 0.02       | 0.0051     | 0.012      | 0.12     | 0.043      |
| 9/10/2019  | 0.023      | 0.0074     | 0.015      | 0.11     | 0.042      |
| 1/28/2020  | 0.022      |            |            | 0.13     |            |
| 1/29/2020  |            | 0.0059     | 0.012      |          | 0.037      |
| 3/10/2020  | 0.018      | 0.0068     | 0.014      | 0.11     | 0.028      |
| 9/16/2020  | 0.025      | 0.0055     |            |          |            |
| 9/17/2020  |            |            | 0.012      | 0.11     | 0.039      |
| 3/24/2021  | 0.018      | 0.0066     | 0.013      | 0.13     | 0.011      |
| 8/24/2021  |            | 0.0062     | 0.012      |          |            |
| 8/25/2021  | 0.017      |            |            | 0.12     | 0.037      |
| 2/22/2022  | 0.022      |            |            |          |            |
| 2/23/2022  |            | 0.0066     | 0.013      | 0.13     | 0.028      |
| 8/2/2022   | 0.026      |            |            |          |            |
| 8/3/2022   |            |            | 0.013      | 0.13     |            |
| 8/4/2022   |            | 0.0063     |            |          | 0.021      |
| 2/7/2023   | 0.024      |            | 0.014      |          |            |
| 2/8/2023   |            | 0.0065     |            | 0.14     | 0.012      |
| 8/1/2023   |            |            | 0.011      |          | 0.012      |
| 8/2/2023   | 0.019      | 0.0031 (J) |            | 0.13     |            |

## Time Series

Constituent: Mercury (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1  |
|------------|--------------|--------------|-------------|-------------|--------------|---------|
| 5/5/2016   | <0.0002      |              |             | <0.0002     |              |         |
| 5/6/2016   |              |              |             |             |              | <0.0002 |
| 6/20/2016  | <0.0002      | <0.0002      | <0.0002     |             |              |         |
| 6/21/2016  |              |              |             | <0.0002     |              | <0.0002 |
| 8/15/2016  | <0.0002      | 8E-05 (J)    | <0.0002     | <0.0002     |              |         |
| 8/16/2016  |              |              |             |             |              | <0.0002 |
| 9/28/2016  | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 11/16/2016 | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 1/16/2017  | <0.0002      |              |             |             |              |         |
| 1/17/2017  |              | <0.0002      | <0.0002     | <0.0002     |              |         |
| 1/19/2017  |              |              |             |             |              | <0.0002 |
| 3/2/2017   | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 4/18/2017  | <0.0002      | <0.0002      | <0.0002     | <0.0002     |              | <0.0002 |
| 7/13/2017  |              | <0.0002      |             |             |              |         |
| 3/29/2018  | <0.0002      | 8.6E-05 (J)  | <0.0002     | 7.4E-05 (J) |              | <0.0002 |
| 6/12/2018  | <0.0002      | <0.0002      | <0.0002     |             |              |         |
| 6/13/2018  |              |              |             | <0.0002     |              | <0.0002 |
| 10/9/2018  | <0.0002      | <0.0002      | <0.0002     |             |              |         |
| 10/10/2018 |              |              |             | <0.0002     |              | <0.0002 |
| 1/28/2019  | <0.0002      | <0.0002      |             |             |              |         |
| 1/29/2019  |              |              | <0.0002     | <0.0002     | <0.0002      | <0.0002 |
| 1/28/2020  | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 1/29/2020  |              |              |             |             |              | <0.0002 |
| 3/9/2020   | <0.0002      | <0.0002      |             |             |              |         |
| 3/10/2020  |              |              | <0.0002     | <0.0002     | <0.0002      | <0.0002 |
| 9/16/2020  | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 9/17/2020  |              |              |             |             |              | <0.0002 |
| 3/23/2021  | <0.0002      | <0.0002      |             | <0.0002     | <0.0002      |         |
| 3/24/2021  |              |              | <0.0002     |             |              | <0.0002 |
| 8/23/2021  | <0.0002      | <0.0002      |             |             |              |         |
| 8/24/2021  |              |              | <0.0002     | <0.0002     | <0.0002      |         |
| 8/25/2021  |              |              |             |             |              | <0.0002 |
| 2/22/2022  | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      | <0.0002 |
| 8/2/2022   | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 8/3/2022   |              |              |             |             |              | <0.0002 |
| 2/7/2023   | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      |         |
| 2/8/2023   |              |              |             |             |              | <0.0002 |
| 8/1/2023   | <0.0002      | <0.0002      | <0.0002     | <0.0002     | <0.0002      | <0.0002 |

## Time Series

Constituent: Mercury (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3    | MGWC-7    | MGWC-8      |
|------------|-------------|-------------|-----------|-----------|-------------|
| 5/5/2016   |             |             |           | <0.0002   | <0.0002     |
| 5/6/2016   |             | <0.0002     | <0.0002   |           |             |
| 6/21/2016  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/15/2016  |             |             |           | <0.0002   | 0.00015 (J) |
| 8/16/2016  | <0.0002     | 7.8E-05 (J) | <0.0002   |           |             |
| 9/28/2016  |             |             |           | <0.0002   | <0.0002     |
| 9/29/2016  | <0.0002     | <0.0002     | <0.0002   |           |             |
| 11/16/2016 | 8.6E-05 (J) | 0.0001 (J)  | 7E-05 (J) | 8E-05 (J) | 0.00021     |
| 1/17/2017  |             |             | <0.0002   | <0.0002   | 7.6E-05 (J) |
| 1/18/2017  | <0.0002     | <0.0002     |           |           |             |
| 3/2/2017   | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 4/18/2017  |             |             | <0.0002   | <0.0002   | 0.00018 (J) |
| 4/19/2017  |             | <0.0002     |           |           |             |
| 4/25/2017  | <0.0002     |             |           |           |             |
| 7/13/2017  | <0.0002     |             |           |           |             |
| 3/29/2018  | 7.4E-05 (J) |             |           | <0.0002   |             |
| 3/30/2018  |             | <0.0002     | <0.0002   |           | 0.00013 (J) |
| 6/12/2018  | <0.0002     |             |           |           |             |
| 6/13/2018  |             | <0.0002     | <0.0002   | <0.0002   | 0.00074     |
| 10/10/2018 | <0.0002     | <0.0002     | <0.0002   | <0.0002   | 0.00013 (J) |
| 1/29/2019  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 1/28/2020  | <0.0002     |             |           | <0.0002   |             |
| 1/29/2020  |             | <0.0002     | <0.0002   |           | 0.00012 (J) |
| 3/10/2020  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 9/16/2020  | <0.0002     | <0.0002     |           |           |             |
| 9/17/2020  |             |             | <0.0002   | <0.0002   | 0.00014 (J) |
| 3/24/2021  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/24/2021  |             | <0.0002     | <0.0002   |           |             |
| 8/25/2021  | <0.0002     |             |           | <0.0002   | 0.0041      |
| 10/26/2021 |             |             |           | <0.0002   |             |
| 2/22/2022  | <0.0002     |             |           |           |             |
| 2/23/2022  |             | <0.0002     | <0.0002   | <0.0002   | 0.00028     |
| 8/2/2022   | <0.0002     |             |           |           |             |
| 8/3/2022   |             |             | <0.0002   | <0.0002   |             |
| 8/4/2022   |             | <0.0002     |           |           | 0.00068     |
| 2/7/2023   | <0.0002     |             | <0.0002   |           |             |
| 2/8/2023   |             | <0.0002     |           | <0.0002   | 0.00026     |
| 8/1/2023   |             |             | <0.0002   |           | 0.00014 (J) |
| 8/2/2023   | <0.0002     | <0.0002     |           | <0.0002   |             |

## Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.015       |              |             | 0.0026 (J)  | <0.015       |             |
| 5/6/2016   |              |              |             |             |              | 0.0021 (J)  |
| 6/20/2016  | 0.00031 (J)  | 0.0052 (J)   | 0.0014 (J)  |             |              |             |
| 6/21/2016  |              |              |             | <0.015      |              | 0.002 (J)   |
| 8/15/2016  | <0.015       | 0.0022 (J)   | 0.0013 (J)  | <0.015      |              |             |
| 8/16/2016  |              |              |             |             |              | 0.0019 (J)  |
| 9/28/2016  | <0.015       | 0.0018 (J)   | 0.0012 (J)  | <0.015      |              | 0.0018 (J)  |
| 11/16/2016 | <0.015       | <0.015       | <0.015      | <0.015      |              | <0.075      |
| 1/16/2017  | <0.015       |              |             |             |              |             |
| 1/17/2017  |              | 0.0011 (J)   | <0.015      | <0.015      |              |             |
| 1/19/2017  |              |              |             |             |              | 0.0011 (J)  |
| 3/2/2017   | <0.015       | <0.015       | <0.015      | <0.015      |              | 0.0012 (J)  |
| 4/18/2017  | <0.015       | <0.015       | <0.015      | <0.015      |              | 0.0013 (J)  |
| 7/13/2017  |              | <0.015       |             |             |              |             |
| 3/29/2018  | <0.015       | <0.015       | <0.015      | <0.015      |              | 0.0017 (J)  |
| 6/12/2018  | 0.0012 (J)   | 0.0029 (J)   | <0.015      |             |              |             |
| 6/13/2018  |              |              |             | <0.015      |              | 0.00087 (J) |
| 10/9/2018  | <0.015       | <0.015       | <0.015      |             |              |             |
| 10/10/2018 |              |              |             | <0.015      |              | <0.075      |
| 1/28/2019  | <0.015       | <0.015       |             |             |              |             |
| 1/29/2019  |              |              | <0.015      | <0.015      | <0.015       | <0.075      |
| 1/28/2020  | 0.00064 (J)  | 0.00085 (J)  | 0.00095 (J) | <0.015      | 0.0014 (J)   |             |
| 1/29/2020  |              |              |             |             |              | 0.0015 (J)  |
| 3/9/2020   | <0.015       | 0.0012 (J)   |             |             |              |             |
| 3/10/2020  |              |              | 0.00093 (J) | <0.015      | 0.0012 (J)   | <0.075      |
| 9/16/2020  | 0.0022 (J)   | 0.0019 (J)   | 0.00079 (J) | <0.015      | 0.0014 (J)   |             |
| 9/17/2020  |              |              |             |             |              | 0.0012 (J)  |
| 3/23/2021  | <0.015       | 0.00093 (J)  |             | <0.015      | 0.00089 (J)  |             |
| 3/24/2021  |              |              | 0.00089 (J) |             |              | 0.0029 (J)  |
| 8/23/2021  | 0.0016 (J)   | 0.0012 (J)   |             |             |              |             |
| 8/24/2021  |              |              | <0.015      | <0.015      | 0.0011 (J)   |             |
| 8/25/2021  |              |              |             |             |              | 0.00088 (J) |
| 2/22/2022  | <0.015       | 0.001 (J)    | 0.00091 (J) | <0.015      | 0.00078 (J)  | 0.0014 (J)  |
| 8/2/2022   | <0.015       | <0.015       | <0.015      | <0.015      | 0.0015 (J)   |             |
| 8/3/2022   |              |              |             |             |              | 0.0011 (J)  |
| 2/7/2023   | <0.015       | 0.00098 (J)  | <0.015      | <0.015      | <0.015       |             |
| 2/8/2023   |              |              |             |             |              | 0.0012 (J)  |
| 8/1/2023   | <0.015       | <0.015       | <0.015      | <0.015      | 0.0014 (J)   | 0.0012 (J)  |

## Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2 | MGWC-3 | MGWC-7      | MGWC-8     |
|------------|-------------|--------|--------|-------------|------------|
| 5/5/2016   |             |        |        | 0.00351 (J) | <0.015     |
| 5/6/2016   |             | <0.015 | <0.015 |             |            |
| 6/21/2016  | 0.002 (J)   | <0.015 | <0.015 | <0.015      | <0.015     |
| 8/15/2016  |             |        |        | <0.015      | <0.015     |
| 8/16/2016  | 0.0012 (J)  | <0.015 | <0.015 |             |            |
| 9/28/2016  |             |        |        | <0.015      | <0.015     |
| 9/29/2016  | 0.0014 (J)  | <0.015 | <0.015 |             |            |
| 11/16/2016 | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 1/17/2017  |             |        | <0.015 | <0.015      | <0.015     |
| 1/18/2017  | <0.015      | <0.015 |        |             |            |
| 3/2/2017   | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 4/18/2017  |             |        | <0.015 | <0.015      | 0.0037 (J) |
| 4/19/2017  |             | <0.015 |        |             |            |
| 4/25/2017  | <0.015      |        |        |             |            |
| 7/13/2017  | <0.015      |        |        |             |            |
| 3/29/2018  | <0.015      |        |        | <0.015      |            |
| 3/30/2018  |             | <0.015 | <0.015 |             | <0.015     |
| 6/12/2018  | <0.015      |        |        |             |            |
| 6/13/2018  |             | <0.015 | <0.015 | <0.015      | <0.015     |
| 10/10/2018 | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 1/29/2019  | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 1/28/2020  | <0.015      |        |        | <0.015      |            |
| 1/29/2020  |             | <0.015 | <0.015 |             | <0.015     |
| 3/10/2020  | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 9/16/2020  | 0.0024 (J)  | <0.015 |        |             |            |
| 9/17/2020  |             |        | <0.015 | <0.015      | <0.015     |
| 3/24/2021  | <0.015      | <0.015 | <0.015 | <0.015      | <0.015     |
| 8/24/2021  |             | <0.015 | <0.015 |             |            |
| 8/25/2021  | <0.015      |        |        | <0.015      | <0.015     |
| 2/22/2022  | 0.00064 (J) |        |        |             |            |
| 2/23/2022  |             | <0.015 | <0.015 | <0.015      | <0.015     |
| 8/2/2022   | 0.00093 (J) |        |        |             |            |
| 8/3/2022   |             |        | <0.015 | <0.015      |            |
| 8/4/2022   |             | <0.015 |        |             | <0.015     |
| 2/7/2023   | <0.015      |        | <0.015 |             |            |
| 2/8/2023   |             | <0.015 |        | <0.015      | <0.015     |
| 8/1/2023   |             |        | <0.015 |             | <0.015     |
| 8/2/2023   | <0.015      | <0.015 |        | <0.015      |            |

## Time Series

Constituent: pH (SU) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1   |
|------------|--------------|--------------|-------------|-------------|--------------|----------|
| 5/5/2016   | 5.94         |              | 7.4         | 7.13        |              |          |
| 5/6/2016   |              |              |             |             |              | 6.64     |
| 6/20/2016  | 5.84 (D)     | 7.82         | 7.63        |             |              |          |
| 6/21/2016  |              |              |             | 7.25        |              | 6.99     |
| 8/15/2016  | 5.65         | 7.52         | 7.54        | 7.04        |              |          |
| 8/16/2016  |              |              |             |             |              | 6.48     |
| 9/28/2016  | 5.72         | 7.66         | 7.45        | 7.09        |              | 6.7      |
| 11/16/2016 | 5.65         | 7.51         | 7.39        | 7.6         |              | 6.66     |
| 1/16/2017  | 5.52         |              |             |             |              |          |
| 1/17/2017  |              | 7.52         | 7.23        | 6.99        |              |          |
| 1/19/2017  |              |              |             |             |              | 6.81     |
| 3/2/2017   | 5.53         | 7.5          | 7.55        | 6.95        |              | 6.75     |
| 4/18/2017  | 5.64         | 7.75         | 7.43        | 7.02        |              | 6.93     |
| 7/13/2017  |              | 7.72         |             |             |              |          |
| 10/10/2017 |              |              | 5.62        | 7.27        |              | 6.99     |
| 10/11/2017 | 6.11         | 6.35         |             |             |              |          |
| 3/29/2018  | 5.35         | 7.42         | 7.19        | 6.95        |              | 6.82     |
| 6/12/2018  | 6.23         | 8.02         | 7.55        |             |              |          |
| 6/13/2018  |              |              |             | 7.08        |              | 7.01     |
| 10/9/2018  | 5.62 (D)     | 7.79 (D)     | 7.8 (D)     |             |              |          |
| 10/10/2018 |              |              |             | 7.01 (D)    |              | 7.04 (D) |
| 1/28/2019  | 5.49 (D)     | 7.4 (D)      |             |             |              |          |
| 1/29/2019  |              |              | 7.63 (D)    | 6.55 (D)    | 6.93 (D)     | 6.87 (D) |
| 3/25/2019  | 5.27 (D)     | 7.29 (D)     | 7.44 (D)    |             | 7.1 (D)      |          |
| 3/26/2019  |              |              |             | 6.57 (D)    |              | 7.01 (D) |
| 9/10/2019  | 5.97         | 7.54         | 7.41        | 6.99        | 7.15         | 7.09     |
| 1/28/2020  | 5.78         | 7.4          | 7.46        | 7.17        | 7.36         |          |
| 1/29/2020  |              |              |             |             |              | 7.19     |
| 3/9/2020   | 5.46         | 7.58         |             |             |              |          |
| 3/10/2020  |              |              | 7.3         | 7           | 7.04         | 7.11     |
| 9/16/2020  | 6.37         | 7.89         | 7.38        | 6.98        | 6.89         |          |
| 9/17/2020  |              |              |             |             |              | 6.95     |
| 12/7/2020  |              |              | 7.2         |             |              |          |
| 12/8/2020  |              |              |             |             |              | 7.41     |
| 3/23/2021  | 5            | 7.06         |             | 6.74        | 6.56         |          |
| 3/24/2021  |              |              | 6.88        |             |              | 7.14     |
| 8/23/2021  | 6.16         | 8.12         |             |             |              |          |
| 8/24/2021  |              |              | 7.78        | 7.11        | 7.28         |          |
| 8/25/2021  |              |              |             |             |              | 7.27     |
| 2/22/2022  | 5.38         | 7.6          | 7.57        | 7.14        | 7.2          | 7.32     |
| 8/2/2022   | 5.41         | 7.57         | 7.45        | 7.1         | 7.27         |          |
| 8/3/2022   |              |              |             |             |              | 7.23     |
| 2/7/2023   | 5.46         | 7.72         | 7.85        | 7.13        | 7.24         |          |
| 2/8/2023   |              |              |             |             |              | 7.28     |
| 8/1/2023   | 5.46         | 7.61         | 7.52        | 7.14        | 7.2          | 7.3      |

## Time Series

Constituent: pH (SU) Analysis Run 9/27/2023 11:07 AM View: Descriptive  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12   | MGWC-2   | MGWC-3   | MGWC-7   | MGWC-8   |
|------------|-----------|----------|----------|----------|----------|
| 5/5/2016   |           |          |          | 7.81     | 5.96     |
| 5/6/2016   |           | 7.41     | 6.85     |          |          |
| 6/21/2016  | 7.61      | 7.41     | 6.98     | 7.2      | 6        |
| 8/15/2016  |           |          |          | 7.04     | 5.26     |
| 8/16/2016  | 7.17      | 7.33     | 6.73     |          |          |
| 9/28/2016  |           |          |          | 7        | 5.66     |
| 9/29/2016  | 6.97      | 7.42     | 6.81     |          |          |
| 11/16/2016 | 7.03      | 7.87     | 6.69     | 6.73     | 5.33     |
| 1/17/2017  |           |          | 6.77     | 6.61     | 5.24     |
| 1/18/2017  | 7.01      | 7.49     |          |          |          |
| 3/2/2017   | 7.02      | 7.37     | 6.79     | 6.62     | 5.21     |
| 4/18/2017  |           |          | 6.77     | 6.7      | 5.85     |
| 4/19/2017  |           | 7.48     |          |          |          |
| 4/25/2017  | 7.02      |          |          |          |          |
| 7/13/2017  | 7.17      |          |          |          |          |
| 10/10/2017 | 7.24      | 7.29     | 7        | 6.48     | 5.6      |
| 3/29/2018  | 6.93      |          |          | 6.46     |          |
| 3/30/2018  |           | 7.31     | 6.68     |          | 5.16     |
| 6/12/2018  | 7.29      |          |          |          |          |
| 6/13/2018  |           | 7.37     | 6.83     | 6.24     | 5.79     |
| 10/10/2018 | 7.12 (D)  | 7.41 (D) | 6.69 (D) | 6.12 (D) | 5.15 (D) |
| 1/29/2019  | 8.02 (D)  | 7.03 (D) | 6.42 (D) | 5.93 (D) | 5.46 (D) |
| 3/26/2019  | 7.29 (D)  | 6.68 (D) | 5.96 (D) | 5.19 (D) | 7.14 (D) |
| 9/10/2019  | 10.96 (o) | 7.26     | 6.67     | 6.03     | 5.1      |
| 1/28/2020  | 7.25      |          |          | 6.61     |          |
| 1/29/2020  |           | 7.3      | 6.68     |          | 5.76     |
| 3/10/2020  | 7.53      | 7.3      | 6.87     | 6.54     | 5.5      |
| 9/16/2020  | 11.03 (o) | 7.16     |          |          |          |
| 9/17/2020  |           |          | 6.68     | 6.39     | 5.22     |
| 12/8/2020  |           |          | 7.04     |          |          |
| 3/24/2021  | 7.15      | 7.24     | 6.73     | 6.26     | 6.71     |
| 8/24/2021  |           | 7.42     | 6.92     |          |          |
| 8/25/2021  | 7.44      |          |          | 6.85     | 5.26     |
| 10/26/2021 |           |          |          |          | 5.99     |
| 2/22/2022  | 7.41      |          |          |          |          |
| 2/23/2022  |           | 7.44     | 6.98     | 6.91     | 6.22     |
| 8/2/2022   | 7.06      |          |          |          |          |
| 8/3/2022   |           |          | 6.91     | 6.86     |          |
| 8/4/2022   |           | 7.37     |          |          | 6.5      |
| 2/7/2023   | 6.95      |          | 7.01     |          |          |
| 2/8/2023   |           | 7.44     |          | 7.43     | 6.76     |
| 8/1/2023   |           |          | 7.09     |          | 6.77     |
| 8/2/2023   | 7.2       | 7.31     |          | 6.9      |          |

## Time Series

Constituent: Selenium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1     |
|------------|--------------|--------------|-------------|-------------|--------------|------------|
| 5/5/2016   | <0.005       |              |             | <0.005      |              |            |
| 5/6/2016   |              |              |             |             |              | <0.005     |
| 6/20/2016  | <0.005       | <0.005       | <0.005      |             |              |            |
| 6/21/2016  |              |              |             | <0.005      |              | <0.005     |
| 8/15/2016  | 0.00062 (J)  | <0.005       | <0.005      | <0.005      |              |            |
| 8/16/2016  |              |              |             |             |              | <0.005     |
| 9/28/2016  | 0.0003 (J)   | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 11/16/2016 | <0.005       | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 1/16/2017  | <0.005       |              |             |             |              |            |
| 1/17/2017  |              | <0.005       | <0.005      | <0.005      |              |            |
| 1/19/2017  |              |              |             |             |              | <0.005     |
| 3/2/2017   | <0.005       | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 4/18/2017  | <0.005       | <0.005       | <0.005      | <0.005      |              | <0.005     |
| 7/13/2017  |              | <0.005       |             |             |              |            |
| 3/29/2018  | 0.00027 (J)  | <0.005       | <0.005      | <0.005      |              | 0.0005 (J) |
| 6/12/2018  | 0.00076 (J)  | 0.00049 (J)  | <0.005      |             |              |            |
| 6/13/2018  |              |              |             | <0.005      |              | <0.005     |
| 10/9/2018  | 0.00054 (J)  | <0.005       | <0.005      |             |              |            |
| 10/10/2018 |              |              |             | <0.005      |              | <0.005     |
| 1/28/2019  | <0.005       | <0.005       |             |             |              |            |
| 1/29/2019  |              |              | <0.005      | <0.005      | <0.005       | <0.005     |
| 1/28/2020  | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       |            |
| 1/29/2020  |              |              |             |             |              | <0.005     |
| 2/22/2022  | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       | <0.005     |
| 8/2/2022   | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       |            |
| 8/3/2022   |              |              |             |             |              | <0.005     |
| 2/7/2023   | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       |            |
| 2/8/2023   |              |              |             |             |              | <0.005     |
| 8/1/2023   | <0.005       | <0.005       | <0.005      | <0.005      | <0.005       | <0.005     |

## Time Series

Constituent: Selenium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             | <0.005      | <0.005      |
| 5/6/2016   |             | <0.005      | <0.005      |             |             |
| 6/21/2016  | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/15/2016  |             |             |             | <0.005      | 0.00033 (J) |
| 8/16/2016  | <0.005      | <0.005      | <0.005      |             |             |
| 9/28/2016  |             |             |             | <0.005      | 0.00038 (J) |
| 9/29/2016  | <0.005      | <0.005      | <0.005      |             |             |
| 11/16/2016 | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/17/2017  |             |             | <0.005      | <0.005      | <0.005      |
| 1/18/2017  | <0.005      | <0.005      |             |             |             |
| 3/2/2017   | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 4/18/2017  |             |             | <0.005      | <0.005      | 0.0024      |
| 4/19/2017  |             | <0.005      |             |             |             |
| 4/25/2017  | <0.005      |             |             |             |             |
| 7/13/2017  | <0.005      |             |             |             |             |
| 3/29/2018  | 0.00027 (J) |             |             | 0.00026 (J) |             |
| 3/30/2018  |             | 0.00045 (J) | 0.00044 (J) |             | 0.00027 (J) |
| 6/12/2018  | <0.005      |             |             |             |             |
| 6/13/2018  |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 10/10/2018 | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/29/2019  | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/28/2020  | <0.005      |             |             | <0.005      |             |
| 1/29/2020  |             | <0.005      | <0.005      |             | <0.005      |
| 2/22/2022  | <0.005      |             |             |             |             |
| 2/23/2022  |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/2/2022   | <0.005      |             |             |             |             |
| 8/3/2022   |             |             | <0.005      | <0.005      |             |
| 8/4/2022   |             | <0.005      |             |             | <0.005      |
| 2/7/2023   | <0.005      |             | <0.005      |             |             |
| 2/8/2023   |             | <0.005      |             | <0.005      | <0.005      |
| 8/1/2023   |             |             | <0.005      |             | <0.005      |
| 8/2/2023   | <0.005      | <0.005      |             | <0.005      |             |

## Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 2.46         |              | 4.47        | 17.8        |              |        |
| 5/6/2016   |              |              |             |             |              | 106    |
| 6/20/2016  | 2.5          | 1            | 7.7         |             |              |        |
| 6/21/2016  |              |              |             | 17          |              | 210    |
| 8/15/2016  | 1.9          | 0.73 (J)     | 7.5         | 20          |              |        |
| 8/16/2016  |              |              |             |             |              | 120    |
| 9/28/2016  | 1.9          | <1.3         | 7.8         | 21          |              | 110    |
| 11/16/2016 | 1.7          | <1.3         | 6.7         | 20          |              | 130    |
| 1/16/2017  | <1           |              |             |             |              |        |
| 1/17/2017  |              | <1.3         | 6.7         | 19          |              |        |
| 1/19/2017  |              |              |             |             |              | 160    |
| 3/2/2017   | 1.4          | <1.3         | 5.6         | 15          |              | 130    |
| 4/18/2017  | 1.3          | <1.3         | 5.1         | 14          |              | 120    |
| 7/13/2017  |              | 1.4          |             |             |              |        |
| 10/10/2017 | 1.1          | 0.87 (J)     | 4.9         | 11          |              | 170    |
| 6/12/2018  | 0.82 (J)     | 4.1          | 3.8         |             |              |        |
| 6/13/2018  |              |              |             | 8.7         |              | 130    |
| 10/9/2018  | 0.82 (J)     | 2.2          | 6.7         |             |              |        |
| 10/10/2018 |              |              |             | 8.7         |              | 140    |
| 1/29/2019  |              |              |             |             | 7.08         |        |
| 3/25/2019  | <1           | <1.3         | 3.4 (J)     |             | 1.8 (J)      |        |
| 3/26/2019  |              |              |             | 6.3 (J)     |              | 130    |
| 9/10/2019  | 1.1          | 1.8          | 4.7         | 5.6         | 0.6 (J)      | 140    |
| 3/9/2020   | 4.2          | 3.4          |             |             |              |        |
| 3/10/2020  |              |              | 5.2         | 5           | 2.4          | 140    |
| 9/16/2020  | 0.69 (J)     | 3            | 3.2         | 2.7         | 1            |        |
| 9/17/2020  |              |              |             |             |              | 150    |
| 3/23/2021  | <1           | 1.4          |             | 3.2         | 1.7          |        |
| 3/24/2021  |              |              | 3.5         |             |              | 120    |
| 8/23/2021  | <1           | 3.4          |             |             |              |        |
| 8/24/2021  |              |              | 3.6         | 3.5         | 3.3          |        |
| 8/25/2021  |              |              |             |             |              | 140    |
| 2/22/2022  | <1           | 1.1          | 3.2         | 5.4         | 2.1          | 150    |
| 8/2/2022   | <1           | 0.8 (J)      | 2.7         | 2.3         | 2.1          |        |
| 8/3/2022   |              |              |             |             |              | 140    |
| 2/7/2023   | <1           | 3.3          | 2.5         | 2.3         | 1.6          |        |
| 2/8/2023   |              |              |             |             |              | 140    |
| 8/1/2023   | 0.56 (J)     | 1            | 2.9         | 3.2         | 4            | 140    |

## Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 116    | 144    |
| 5/6/2016   |         | 445    | 94.2   |        |        |
| 6/21/2016  | 4       | 290    | 95     | 170    | 160    |
| 8/15/2016  |         |        |        | 170    | 120    |
| 8/16/2016  | 2.8     | 270    | 88     |        |        |
| 9/28/2016  |         |        |        | 170    | 130    |
| 9/29/2016  | <1      | 280    | 94     |        |        |
| 11/16/2016 | 3       | 280    | 97     | 170    | 130    |
| 1/17/2017  |         |        | 100    | 180    | 150    |
| 1/18/2017  | 4.1     | 280    |        |        |        |
| 3/2/2017   | 4.6     | 240    | 100    | 180    | 160    |
| 4/18/2017  |         |        | 91     | 160    | 180    |
| 4/19/2017  |         | 250    |        |        |        |
| 4/25/2017  | 4.4     |        |        |        |        |
| 7/13/2017  | 4.8     |        |        |        |        |
| 10/10/2017 | 4.9     | 240    | 110    | 180    | 260    |
| 6/12/2018  | 4.1     |        |        |        |        |
| 6/13/2018  |         | 220    | 110    | 180    | 330    |
| 10/10/2018 | 2.5     | 220    | 110    | 190    | 410    |
| 3/26/2019  | 2.9 (J) | 190    | 110    | 180    | 420    |
| 9/10/2019  | 2.5     | 180    | 110    | 180    | 420    |
| 3/10/2020  | 7.8     | 170    | 130    | 170    | 370    |
| 9/16/2020  | 4.4     | 160    |        |        |        |
| 9/17/2020  |         |        | 120    | 160    | 380    |
| 3/24/2021  | 7.1     | 180    | 130    | 180    | 280    |
| 8/24/2021  |         | 160    | 130    |        |        |
| 8/25/2021  | 6.6     |        |        | 180    | 420    |
| 2/22/2022  | 4.8     |        |        |        |        |
| 2/23/2022  |         | 180    | 150    | 260    | 390    |
| 8/2/2022   | 3.1     |        |        |        |        |
| 8/3/2022   |         |        | 130    | 220    |        |
| 8/4/2022   |         | 150    |        |        | 350    |
| 2/7/2023   | 4.7     |        | 120    |        |        |
| 2/8/2023   |         | 150    |        | 220    | 280    |
| 8/1/2023   |         |        | 110    |        | 280    |
| 8/2/2023   | 4.6     | 150    |        | 200    |        |

## Time Series

Constituent: TDS (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1 |
|------------|--------------|--------------|-------------|-------------|--------------|--------|
| 5/5/2016   | 78           |              | 129         | 281         |              |        |
| 5/6/2016   |              |              |             |             | 282          |        |
| 6/20/2016  | 80           | 188          | 156         |             |              |        |
| 6/21/2016  |              |              |             | 303         |              | 516    |
| 8/15/2016  | 58           | 180          | 160         | 310         |              |        |
| 8/16/2016  |              |              |             |             | 360          |        |
| 9/28/2016  | 29           | 100          | 91          | 170         |              | 190    |
| 11/16/2016 | 140          | 270          | 250         | 340         |              | 410    |
| 1/16/2017  | 36           |              |             |             |              |        |
| 1/17/2017  |              | 170          | 140         | 310         |              |        |
| 1/19/2017  |              |              |             |             | 400          |        |
| 3/2/2017   | 78           | 210          | 170         | 330         |              | 360    |
| 4/18/2017  | 16           | 160          | 140         | 290         |              | 360    |
| 7/13/2017  |              | 150          |             |             |              |        |
| 10/10/2017 | 78           | 210          | 190         | 310         |              | 480    |
| 6/12/2018  | 62           | 150          | 180         |             |              |        |
| 6/13/2018  |              |              |             | 230         |              | 390    |
| 10/9/2018  | 68           | 150          | 170         |             |              |        |
| 10/10/2018 |              |              |             | 300         |              | 260    |
| 1/29/2019  |              |              |             |             | 280          |        |
| 3/25/2019  | 54           | 210          | 150         |             | 250          |        |
| 3/26/2019  |              |              |             | 290         |              | 370    |
| 9/10/2019  | 14           | 160          | 110         | 260         | 230          | 360    |
| 3/9/2020   | 56           | 190          |             |             |              |        |
| 3/10/2020  |              |              | 170         | 300         | 260          | 450    |
| 9/16/2020  | 44           | 150          | 150         | 300         | 320          |        |
| 9/17/2020  |              |              |             |             |              | 460    |
| 3/23/2021  | 53           | 220          |             | 300         | 270          |        |
| 3/24/2021  |              |              | 150         |             |              | 380    |
| 8/23/2021  | 55           | 200          |             |             |              |        |
| 8/24/2021  |              |              | 160         | 300         | 280          |        |
| 8/25/2021  |              |              |             |             |              | 470    |
| 2/22/2022  | 38           | 210          | 150         | 300         | 270          | 420    |
| 8/2/2022   | 65           | 210          | 270         | 200         | 100 (D)      |        |
| 8/3/2022   |              |              |             |             |              | 440    |
| 2/7/2023   | 61           | 190          | 150         | 290         | 260          |        |
| 2/8/2023   |              |              |             |             |              | 400    |
| 8/1/2023   | 57           | 300          | 170         | 330         | 360          | 450    |

## Time Series

Constituent: TDS (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12 | MGWC-2 | MGWC-3 | MGWC-7 | MGWC-8 |
|------------|---------|--------|--------|--------|--------|
| 5/5/2016   |         |        |        | 272    | 287    |
| 5/6/2016   |         | 661    | 380    |        |        |
| 6/21/2016  | 177     | 692    | 392    | 356    | 297    |
| 8/15/2016  |         |        |        | 330    | 230    |
| 8/16/2016  | 160     | 650    | 360    |        |        |
| 9/28/2016  |         |        |        | 180    | 130    |
| 9/29/2016  | 190     | 640    | 380    |        |        |
| 11/16/2016 | 240     | 680    | 420    | 330    | 290    |
| 1/17/2017  |         |        | 380    | 310    | 240    |
| 1/18/2017  | 180     | 630    |        |        |        |
| 3/2/2017   | 170     | 660    | 410    | 340    | 270    |
| 4/18/2017  |         |        | 360    | 300    | 310    |
| 4/19/2017  |         | 600    |        |        |        |
| 4/25/2017  | 170     |        |        |        |        |
| 7/13/2017  | 150     |        |        |        |        |
| 10/10/2017 | 160     | 600    | 400    | 340    | 450    |
| 6/12/2018  | 170     |        |        |        |        |
| 6/13/2018  |         | 570    | 320    | 320    | 600    |
| 10/10/2018 | 48      | 470    | 300    | 270    | 410    |
| 3/26/2019  | 180     | 530    | 370    | 320    | 630    |
| 9/10/2019  | 140     | 470    | 360    | 260    | 660    |
| 3/10/2020  | 170     | 540    | 390    | 370    | 600    |
| 9/16/2020  | 190     | 530    |        |        |        |
| 9/17/2020  |         |        | 410    | 320    | 740    |
| 3/24/2021  | 190     | 490    | 430    | 330    | 530    |
| 8/24/2021  |         | 510    | 450    |        |        |
| 8/25/2021  | 230     |        |        | 390    | 720    |
| 2/22/2022  | 190     |        |        |        |        |
| 2/23/2022  |         | 490    | 450    | 390    | 630    |
| 8/2/2022   | 150     |        |        |        |        |
| 8/3/2022   |         |        | 430    | 400    |        |
| 8/4/2022   |         | 480    |        |        | 620    |
| 2/7/2023   | 190     |        | 410    |        |        |
| 2/8/2023   |         | 440    |        | 370    | 480    |
| 8/1/2023   |         |        | 420    |        | 570    |
| 8/2/2023   | 200     | 520    |        | 410    |        |

## Time Series

Constituent: Thallium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWA-11 (bg) | MGWA-5 (bg) | MGWA-6 (bg) | MGWA-6A (bg) | MGWC-1      |
|------------|--------------|--------------|-------------|-------------|--------------|-------------|
| 5/5/2016   | <0.001       |              |             | <0.001      | <0.001       |             |
| 5/6/2016   |              |              |             |             |              | <0.001      |
| 6/20/2016  | <0.001       | <0.001       | <0.001      |             |              |             |
| 6/21/2016  |              |              |             | 0.0001 (J)  |              | 9E-05 (J)   |
| 8/15/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              |             |
| 8/16/2016  |              |              |             |             |              | <0.001      |
| 9/28/2016  | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001      |
| 11/16/2016 | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001      |
| 1/16/2017  | <0.001       |              |             |             |              |             |
| 1/17/2017  |              | <0.001       | <0.001      | <0.001      |              |             |
| 1/19/2017  |              |              |             |             |              | <0.001      |
| 3/2/2017   | <0.001       | <0.001       | <0.001      | <0.001      |              | <0.001      |
| 4/18/2017  | <0.001       | <0.001       | <0.001      | <0.001      |              | 9.5E-05 (J) |
| 7/13/2017  |              | <0.001       |             |             |              |             |
| 3/29/2018  | <0.001       | <0.001       | <0.001      | <0.001      |              | 0.00014 (J) |
| 6/12/2018  | <0.001       | <0.001       | <0.001      |             |              |             |
| 6/13/2018  |              |              |             | <0.001      |              | <0.001      |
| 10/9/2018  | <0.001       | <0.001       | <0.001      |             |              |             |
| 10/10/2018 |              |              |             | <0.001      |              | <0.001      |
| 1/28/2019  | <0.001       | <0.001       |             |             |              |             |
| 1/29/2019  |              |              | <0.001      | <0.001      | <0.001       | <0.001      |
| 1/28/2020  | <0.001       | 0.00033 (J)  | <0.001      | 0.00027 (J) | <0.001       |             |
| 1/29/2020  |              |              |             |             |              | 0.00032 (J) |
| 3/9/2020   | 0.00058 (J)  | 0.00036 (J)  |             |             |              |             |
| 3/10/2020  |              |              | 0.00015 (J) | 0.00019 (J) | <0.001       | <0.001      |
| 9/16/2020  | <0.001       | 0.00041 (J)  | 0.00018 (J) | 0.00021 (J) | <0.001       |             |
| 9/17/2020  |              |              |             |             |              | 0.00016 (J) |
| 3/23/2021  | 0.00046 (J)  | 0.00051 (J)  |             | 0.00025 (J) | <0.001       |             |
| 3/24/2021  |              |              | <0.001      |             |              | <0.001      |
| 8/23/2021  | <0.001       | 0.0004 (J)   |             |             |              |             |
| 8/24/2021  |              |              | <0.001      | 0.00017 (J) | <0.001       |             |
| 8/25/2021  |              |              |             |             |              | <0.001      |
| 2/22/2022  | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       | <0.001      |
| 8/2/2022   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |             |
| 8/3/2022   |              |              |             |             |              | <0.001      |
| 2/7/2023   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       |             |
| 2/8/2023   |              |              |             |             |              | <0.001      |
| 8/1/2023   | <0.001       | <0.001       | <0.001      | <0.001      | <0.001       | <0.001      |

## Time Series

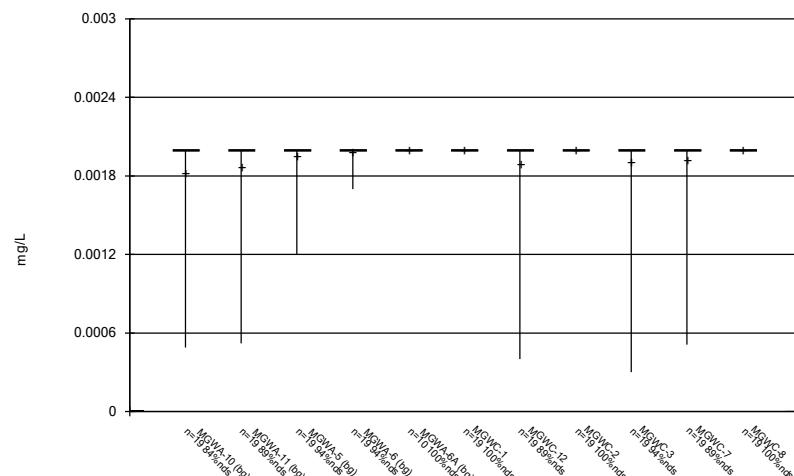
Constituent: Thallium (mg/L) Analysis Run 9/27/2023 11:07 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7 | MGWC-8      |
|------------|-------------|-------------|-------------|--------|-------------|
| 5/5/2016   |             |             |             | <0.001 | <0.001      |
| 5/6/2016   |             | <0.001      | <0.001      |        |             |
| 6/21/2016  | <0.001      | <0.001      | <0.001      | <0.001 | 0.0001 (J)  |
| 8/15/2016  |             |             |             | <0.001 | 0.00016 (J) |
| 8/16/2016  | <0.001      | <0.001      | <0.001      |        |             |
| 9/28/2016  |             |             |             | <0.001 | 0.00014 (J) |
| 9/29/2016  | <0.001      | <0.001      | <0.001      |        |             |
| 11/16/2016 | <0.001      | <0.001      | <0.001      | <0.001 | 9E-05 (J)   |
| 1/17/2017  |             |             | <0.001      | <0.001 | 0.00016 (J) |
| 1/18/2017  | <0.001      | <0.001      |             |        |             |
| 3/2/2017   | <0.001      | <0.001      | <0.001      | <0.001 | 0.00018 (J) |
| 4/18/2017  |             |             | <0.001      | <0.001 | 0.00019 (J) |
| 4/19/2017  |             | <0.001      |             |        |             |
| 4/25/2017  | <0.001      |             |             |        |             |
| 7/13/2017  | <0.001      |             |             |        |             |
| 3/29/2018  | <0.001      |             |             | <0.001 |             |
| 3/30/2018  |             | <0.001      | <0.001      |        | 0.00027 (J) |
| 6/12/2018  | <0.001      |             |             |        |             |
| 6/13/2018  |             | <0.001      | <0.001      | <0.001 | 0.00027 (J) |
| 10/10/2018 | <0.001      | <0.001      | <0.001      | <0.001 | 0.00025 (J) |
| 1/29/2019  | <0.001      | <0.001      | <0.001      | <0.001 | <0.001      |
| 1/28/2020  | <0.001      |             |             | <0.001 |             |
| 1/29/2020  |             | 0.00021 (J) | 0.00037 (J) |        | 0.00042 (J) |
| 3/10/2020  | 0.00015 (J) | <0.001      | 0.00016 (J) | <0.001 | 0.00025 (J) |
| 9/16/2020  | 0.00027 (J) | <0.001      |             |        |             |
| 9/17/2020  |             |             | <0.001      | <0.001 | 0.00031 (J) |
| 3/24/2021  | <0.001      | <0.001      | <0.001      | <0.001 | <0.001      |
| 8/24/2021  |             | <0.001      | <0.001      |        |             |
| 8/25/2021  | <0.001      |             |             | <0.001 | 0.0004 (J)  |
| 2/22/2022  | <0.001      |             |             |        |             |
| 2/23/2022  |             | <0.001      | <0.001      | <0.001 | <0.001      |
| 8/2/2022   | <0.001      |             |             |        |             |
| 8/3/2022   |             |             | <0.001      | <0.001 |             |
| 8/4/2022   |             | <0.001      |             |        | <0.001      |
| 2/7/2023   | <0.001      |             | <0.001      |        |             |
| 2/8/2023   |             | <0.001      |             | <0.001 | <0.001      |
| 8/1/2023   |             |             | <0.001      |        | <0.001      |
| 8/2/2023   | <0.001      | <0.001      |             | <0.001 |             |

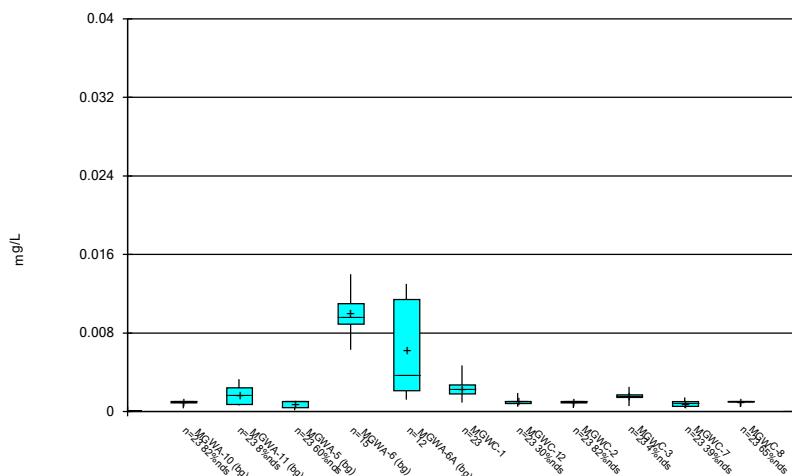
**FIGURE B.**

## Box &amp; Whiskers Plot



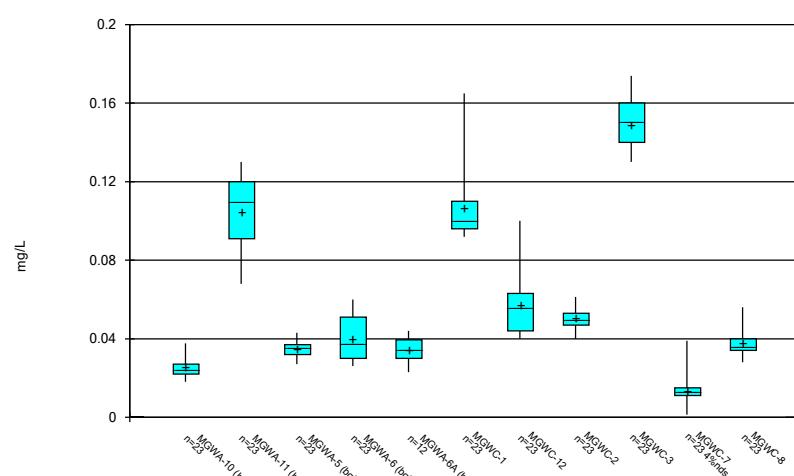
Constituent: Antimony Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



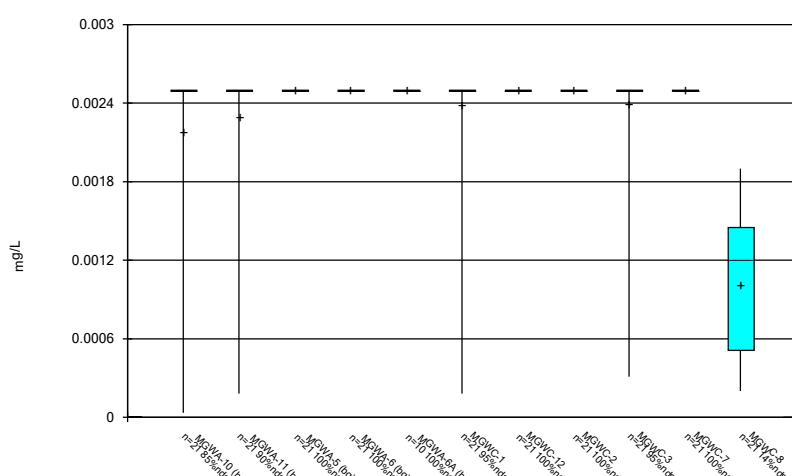
Constituent: Arsenic Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



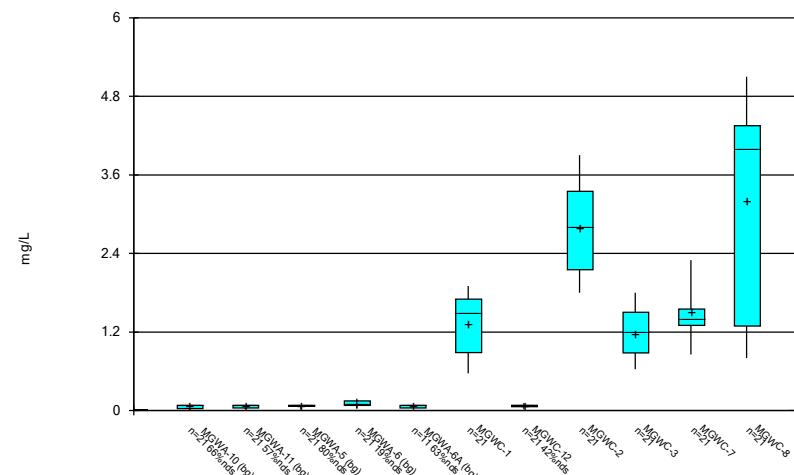
Constituent: Barium Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



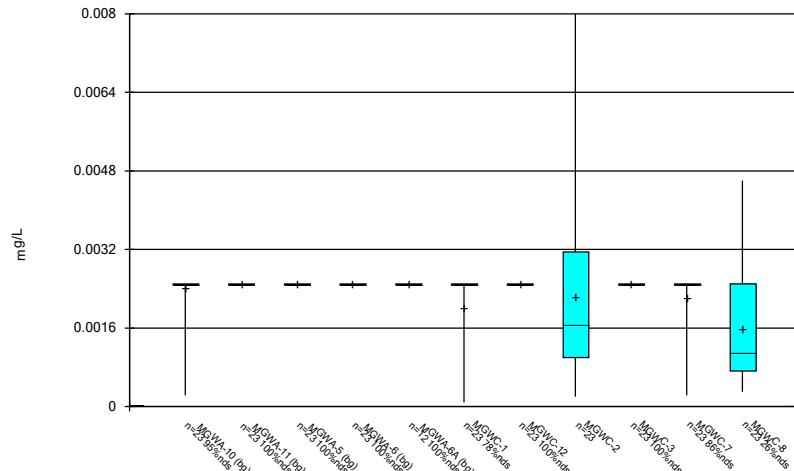
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



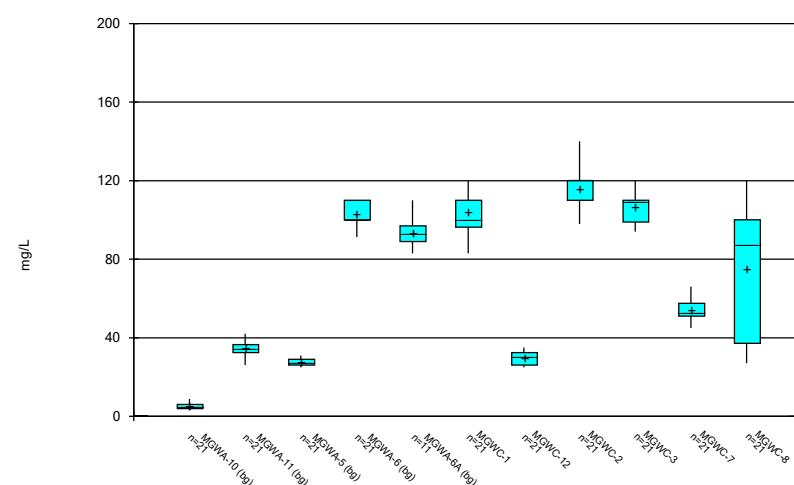
Constituent: Boron Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



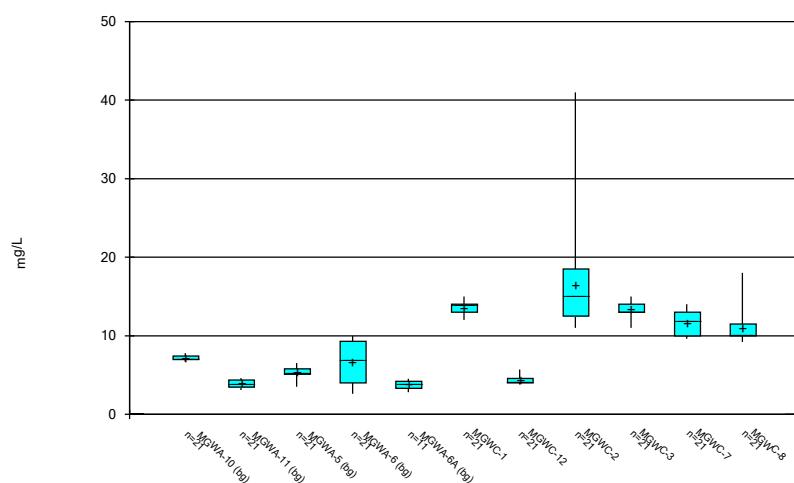
Constituent: Cadmium Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



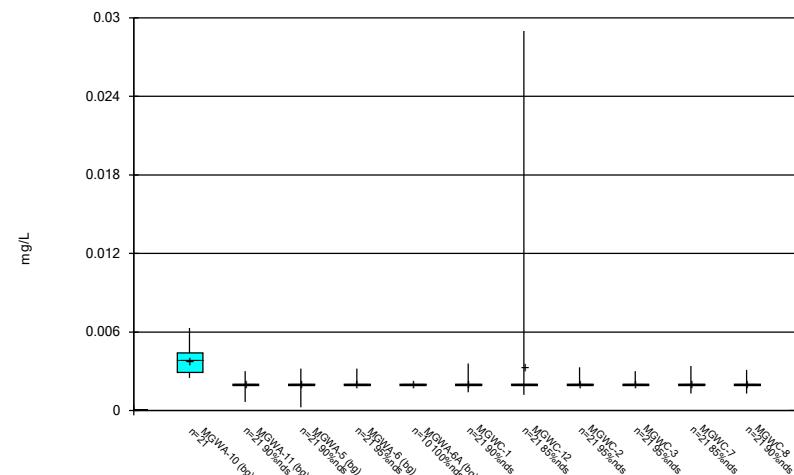
Constituent: Calcium Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



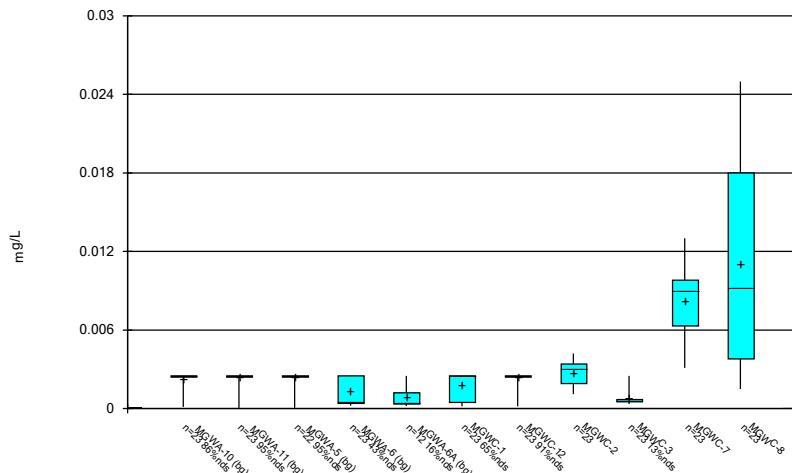
Constituent: Chloride Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



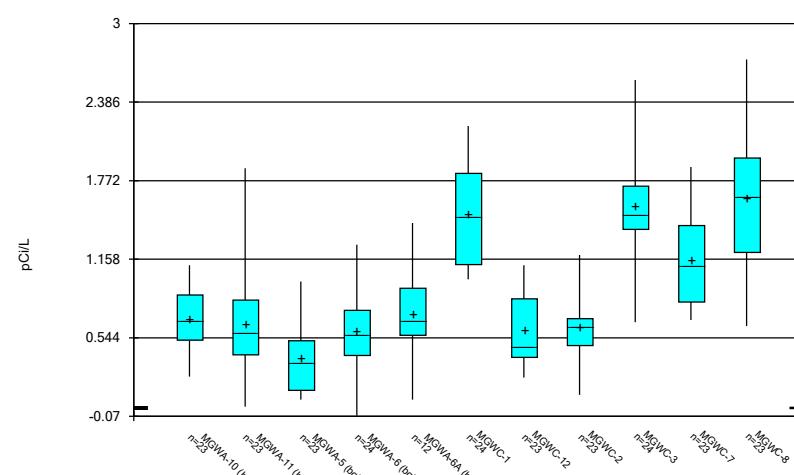
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



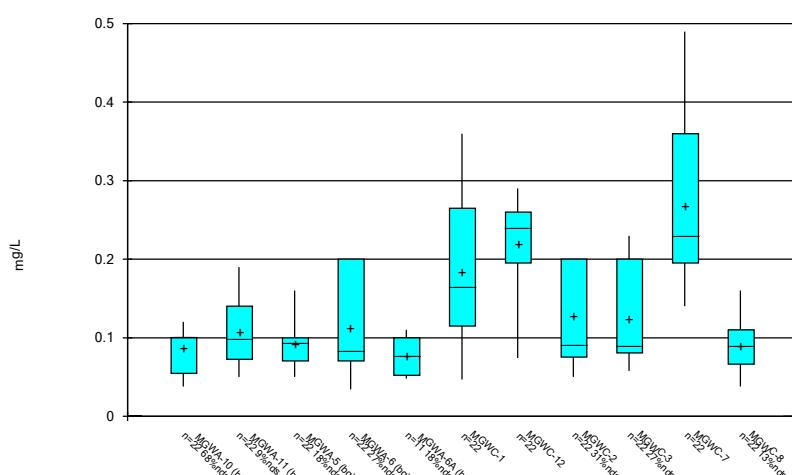
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## Box &amp; Whiskers Plot



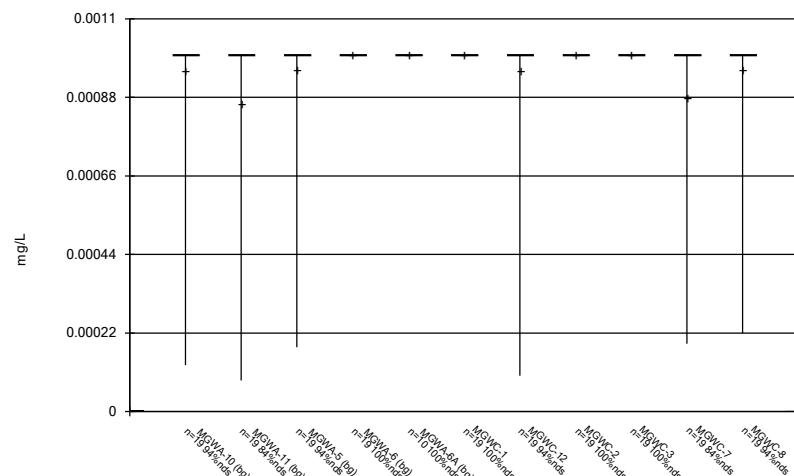
Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



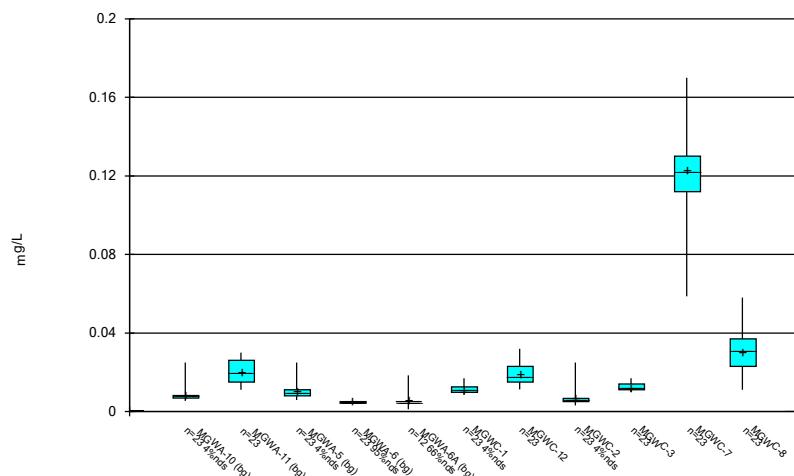
Constituent: Fluoride Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



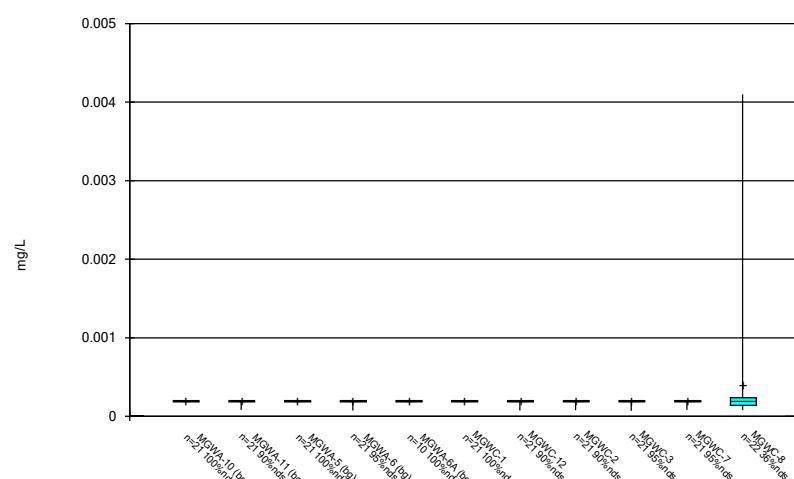
Constituent: Lead Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



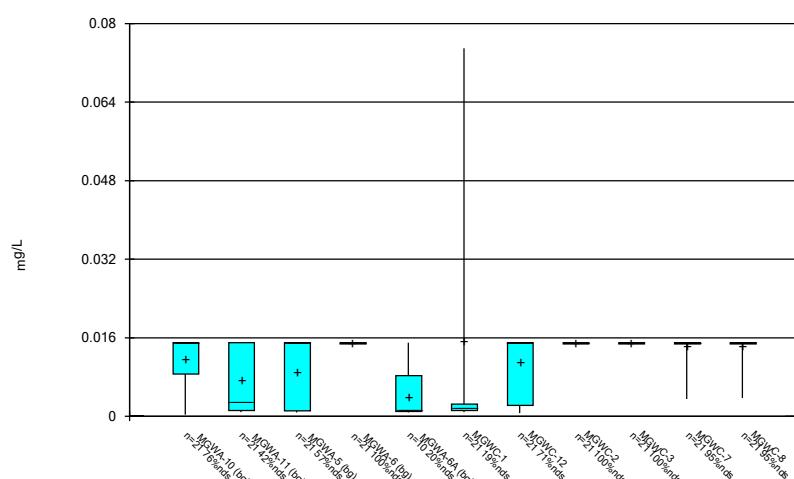
Constituent: Lithium Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



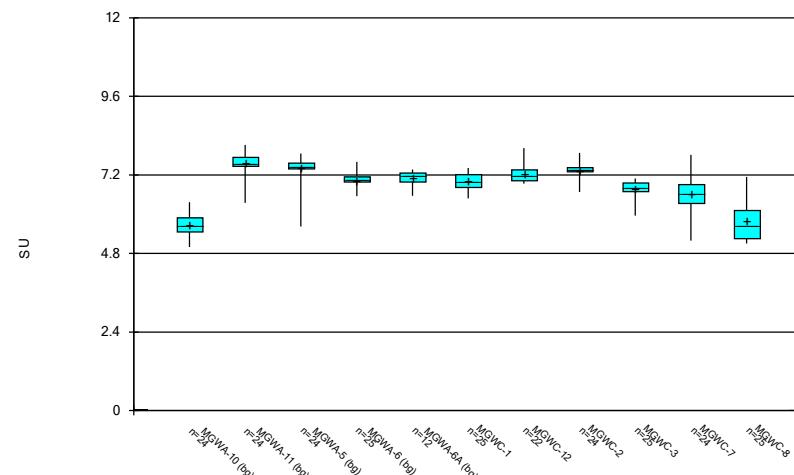
Constituent: Mercury Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



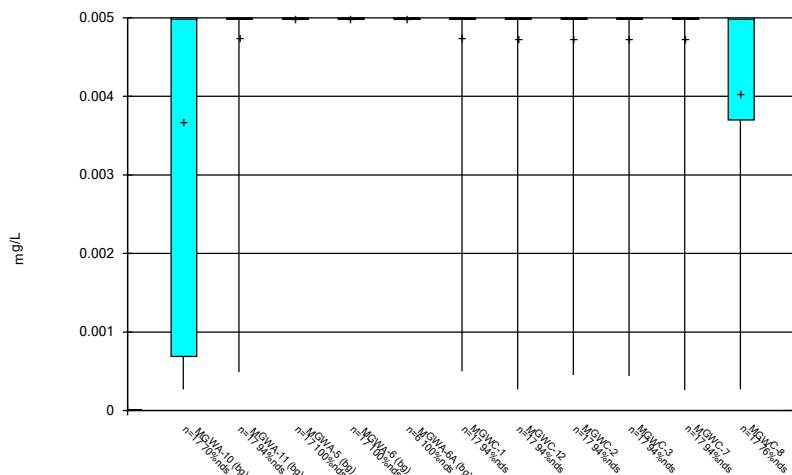
Constituent: Molybdenum Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



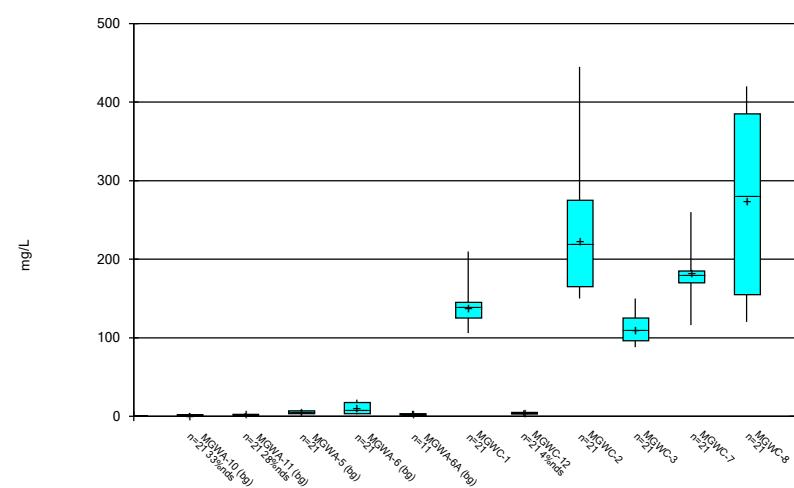
Constituent: pH Analysis Run 9/26/2023 12:30 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



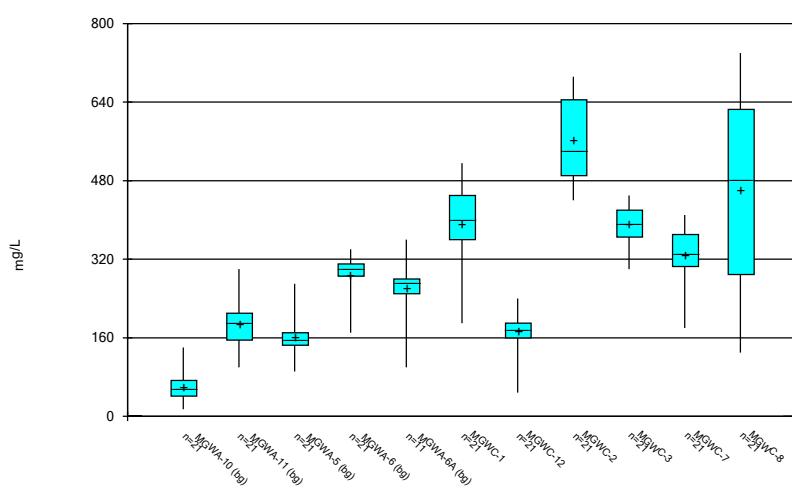
Constituent: Selenium Analysis Run 9/26/2023 12:31 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



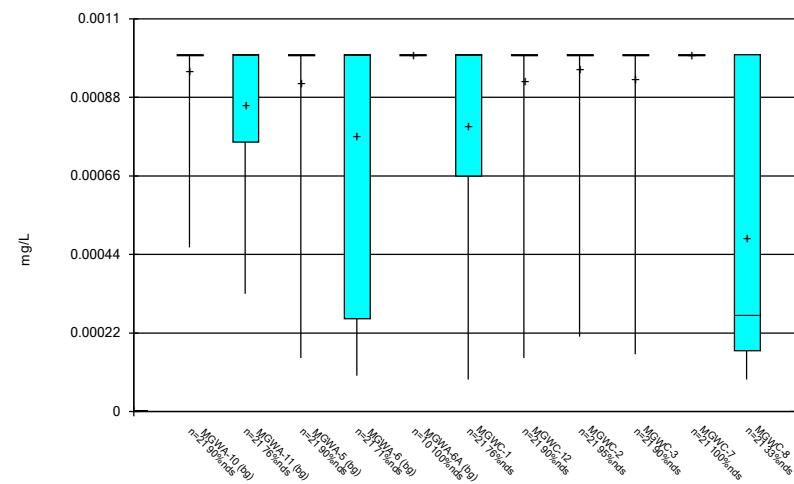
Constituent: Sulfate Analysis Run 9/26/2023 12:31 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box &amp; Whiskers Plot



Constituent: TDS Analysis Run 9/26/2023 12:31 PM View: Descriptive  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Box & Whiskers Plot



Constituent: Thallium Analysis Run 9/26/2023 12:31 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## FIGURE C.

## Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/25/2023, 4:03 PM

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MGWA-5 Cobalt (mg/L)  
MGWC-12 pH (SU)

|           |           |
|-----------|-----------|
| 9/10/2019 | 10.96 (o) |
| 9/16/2020 | 11.03 (o) |
| 8/2/2022  | 0.012 (o) |

**FIGURE D.**

## Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18              | n/a               | 8/1/2023    | 1.6            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18              | n/a               | 8/2/2023    | 1.8            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18              | n/a               | 8/1/2023    | 0.65           | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18              | n/a               | 8/2/2023    | 2.2            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18              | n/a               | 8/1/2023    | 4.3            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)     | MGWC-3      | 110               | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-8      | 110               | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Chloride (mg/L)    | MGWC-1      | 9.28              | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.28              | n/a               | 8/2/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.28              | n/a               | 8/1/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.28              | n/a               | 8/2/2023    | 11             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.28              | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqrt(x)          | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-12     | 0.19              | n/a               | 8/2/2023    | 0.25           | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-7      | 0.19              | n/a               | 8/2/2023    | 0.2            | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.27             | n/a               | 8/1/2023    | 140            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.27             | n/a               | 8/2/2023    | 150            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.27             | n/a               | 8/1/2023    | 110            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.27             | n/a               | 8/2/2023    | 200            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.27             | n/a               | 8/1/2023    | 280            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | ln(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 354.4             | n/a               | 8/1/2023    | 450            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 354.4             | n/a               | 8/2/2023    | 520            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 354.4             | n/a               | 8/1/2023    | 420            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 354.4             | n/a               | 8/2/2023    | 410            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 354.4             | n/a               | 8/1/2023    | 570            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

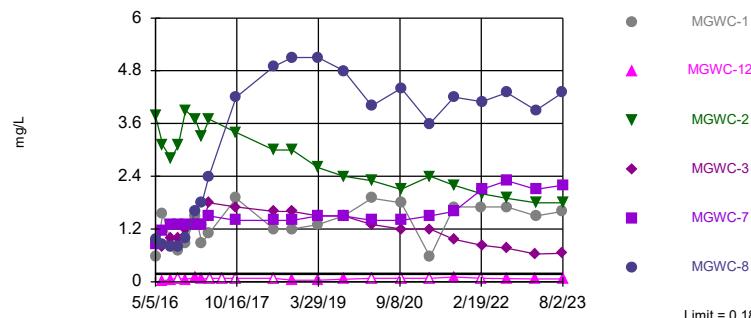
## Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:42 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>               |
|--------------------|-------------|------------------|-------------------|-------------|----------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L)       | MGWC-1      | 0.18             | n/a               | 8/1/2023    | 1.6            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-12     | 0.18             | n/a               | 8/2/2023    | 0.062J         | No          | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-2      | 0.18             | n/a               | 8/2/2023    | 1.8            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-3      | 0.18             | n/a               | 8/1/2023    | 0.65           | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-7      | 0.18             | n/a               | 8/2/2023    | 2.2            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Boron (mg/L)       | MGWC-8      | 0.18             | n/a               | 8/1/2023    | 4.3            | Yes         | 95          | n/a            | n/a              | 56.84       | n/a            | n/a              | 0.0002153    | NP Inter (NDs) 1 of 2       |
| Calcium (mg/L)     | MGWC-1      | 110              | n/a               | 8/1/2023    | 110            | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-12     | 110              | n/a               | 8/2/2023    | 31             | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-2      | 110              | n/a               | 8/2/2023    | 100            | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-3      | 110              | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-7      | 110              | n/a               | 8/2/2023    | 57             | No          | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Calcium (mg/L)     | MGWC-8      | 110              | n/a               | 8/1/2023    | 120            | Yes         | 95          | n/a            | n/a              | 0           | n/a            | n/a              | 0.0002153    | NP Inter (normality) 1 of 2 |
| Chloride (mg/L)    | MGWC-1      | 9.28             | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-12     | 9.28             | n/a               | 8/2/2023    | 4.5            | No          | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-2      | 9.28             | n/a               | 8/2/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-3      | 9.28             | n/a               | 8/1/2023    | 12             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-7      | 9.28             | n/a               | 8/2/2023    | 11             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Chloride (mg/L)    | MGWC-8      | 9.28             | n/a               | 8/1/2023    | 13             | Yes         | 95          | 2.325          | 0.3907           | 0           | None           | sqr(x)           | 0.001254     | Param Inter 1 of 2          |
| Fluoride (mg/L)    | MGWC-1      | 0.19             | n/a               | 8/1/2023    | 0.15           | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-12     | 0.19             | n/a               | 8/2/2023    | 0.25           | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-2      | 0.19             | n/a               | 8/2/2023    | 0.087J         | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-3      | 0.19             | n/a               | 8/1/2023    | 0.1            | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-7      | 0.19             | n/a               | 8/2/2023    | 0.2            | Yes         | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L)    | MGWC-8      | 0.19             | n/a               | 8/1/2023    | 0.11           | No          | 99          | n/a            | n/a              | 29.29       | n/a            | n/a              | 0.0001975    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-1      | 8.12             | 5                 | 8/1/2023    | 7.3            | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-12     | 8.12             | 5                 | 8/2/2023    | 7.2            | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-2      | 8.12             | 5                 | 8/2/2023    | 7.31           | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-3      | 8.12             | 5                 | 8/1/2023    | 7.09           | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-7      | 8.12             | 5                 | 8/2/2023    | 6.9            | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| pH (SU)            | MGWC-8      | 8.12             | 5                 | 8/1/2023    | 6.77           | No          | 109         | n/a            | n/a              | 0           | n/a            | n/a              | 0.0003339    | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L)     | MGWC-1      | 17.27            | n/a               | 8/1/2023    | 140            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-12     | 17.27            | n/a               | 8/2/2023    | 4.6            | No          | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-2      | 17.27            | n/a               | 8/2/2023    | 150            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-3      | 17.27            | n/a               | 8/1/2023    | 110            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-7      | 17.27            | n/a               | 8/2/2023    | 200            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| Sulfate (mg/L)     | MGWC-8      | 17.27            | n/a               | 8/1/2023    | 280            | Yes         | 95          | 0.9031         | 1.054            | 13.68       | None           | In(x)            | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-1      | 354.4            | n/a               | 8/1/2023    | 450            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-12     | 354.4            | n/a               | 8/2/2023    | 200            | No          | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-2      | 354.4            | n/a               | 8/2/2023    | 520            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-3      | 354.4            | n/a               | 8/1/2023    | 420            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-7      | 354.4            | n/a               | 8/2/2023    | 410            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |
| TDS (mg/L)         | MGWC-8      | 354.4            | n/a               | 8/1/2023    | 570            | Yes         | 95          | 184.5          | 92.03            | 0           | None           | No               | 0.001254     | Param Inter 1 of 2          |

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

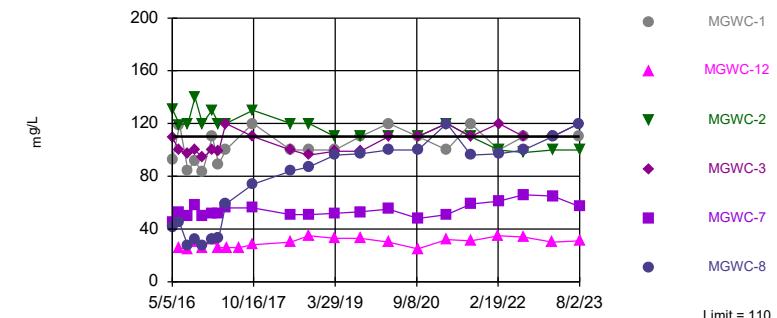
Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 95 background values. 56.84% NDs. Annual per-constituent alpha = 0.00258. Individual comparison alpha = 0.0002153 (1 of 2). Comparing 6 points to limit.

Exceeds Limit: MGWC-3, MGWC-8

Prediction Limit  
Interwell Non-parametric



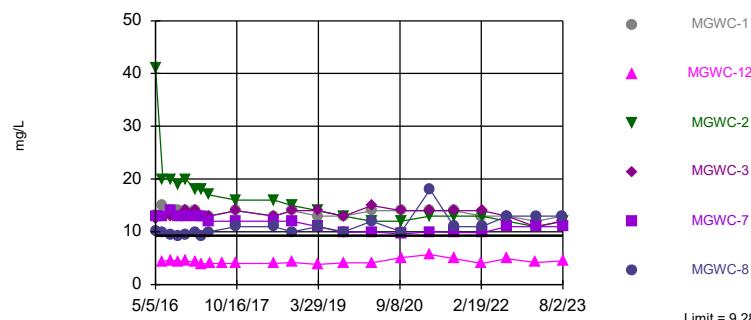
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. Annual per-constituent alpha = 0.00258. Individual comparison alpha = 0.0002153 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Constituent: Calcium Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit  
Interwell Parametric

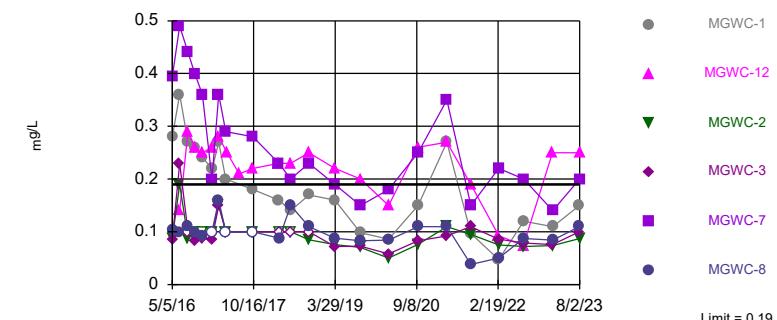


Background Data Summary (based on square root transformation): Mean=2.325, Std. Dev.=0.3907, n=95. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9694, critical = 0.965. Kappa = 1.846 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Chloride Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-12, MGWC-7

Prediction Limit  
Interwell Non-parametric

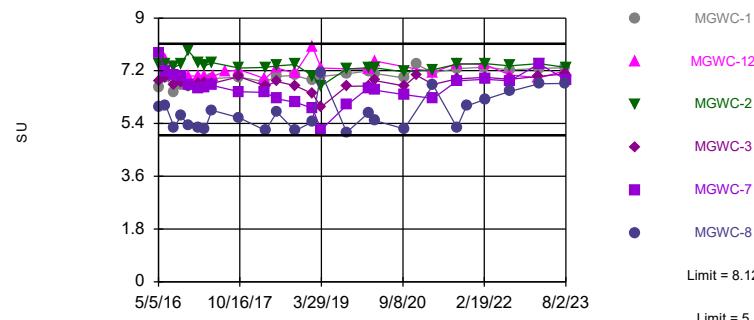


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 99 background values. 29.29% NDs. Annual per-constituent alpha = 0.002368. Individual comparison alpha = 0.0001975 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Within Limits

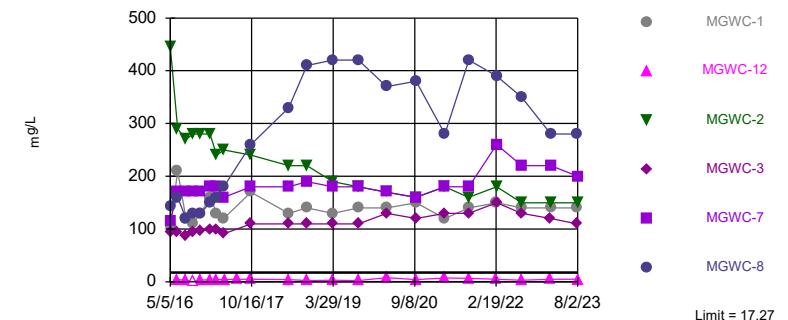
**Prediction Limit**  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 109 background values. Annual per-constituent alpha = 0.004004. Individual comparison alpha = 0.0003339 (1 of 2). Comparing 6 points to limit.

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

**Prediction Limit**  
Interwell Parametric



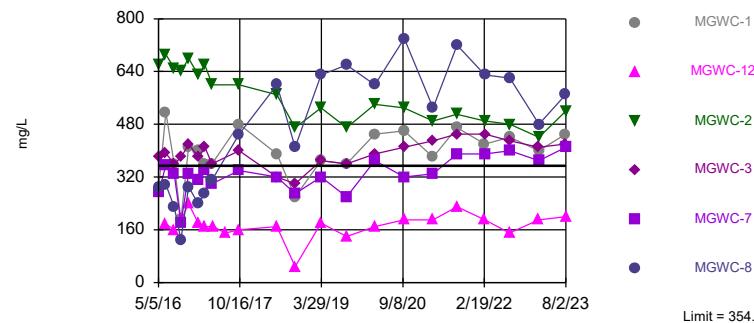
Background Data Summary (based on natural log transformation): Mean=0.9031, Std. Dev.=1.054, n=95, 13.68% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9697, critical = 0.965. Kappa = 1.846 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: pH Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Constituent: Sulfate Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

**Prediction Limit**  
Interwell Parametric



Background Data Summary: Mean=184.5, Std. Dev.=92.03, n=95. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9668, critical = 0.965. Kappa = 1.846 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 9/26/2023 12:38 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

## Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-2 | MGWC-1 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | <0.08        | 0.976  | 0.157       | 0.855  | <0.08       |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 0.926  | 3.78   | 0.567  |              |
| 6/20/2016  | 0.011 (J)    |        |             |        | 0.013 (J)   |        |        |        | 0.017 (J)    |
| 6/21/2016  |              | 0.862  | 0.124       | 1.15   |             | 0.792  | 3.1    | 1.55   |              |
| 8/15/2016  | 0.022 (J)    | 0.8    | 0.18        | 1.3    | 0.023 (J)   |        | 1      | 2.8    | 0.032 (J)    |
| 8/16/2016  |              |        |             |        |             |        | 1      | 0.85   |              |
| 9/28/2016  | 0.023 (J)    | 0.8    | 0.17        | 1.3    | <0.08       |        |        | 0.7    | 0.021 (J)    |
| 9/29/2016  |              |        |             |        |             | 1      | 3.1    |        |              |
| 11/16/2016 | <0.08        | 0.98   | 0.17        | 1.3    | <0.08       | 1.2    | 3.9    | 0.88   | <0.08        |
| 1/16/2017  | 0.021 (J)    |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 1.6    | 0.17        | 1.3    | <0.08       | 1.3    |        |        | <0.08        |
| 1/18/2017  |              |        |             |        |             |        | 3.7    |        |              |
| 1/19/2017  |              |        |             |        |             |        |        | 1.5    |              |
| 3/2/2017   | <0.08        | 1.8    | 0.14        | 1.3    | <0.08       | 1.3    | 3.3    | 0.89   | <0.08        |
| 4/18/2017  | <0.08        | 2.4    | 0.14        | 1.5    | <0.08       | 1.8    |        | 1.1    | <0.08        |
| 4/19/2017  |              |        |             |        |             |        | 3.7    |        |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | <0.08        |
| 10/10/2017 | 0.021 (J)    | 4.2    | 0.12        | 1.4    | <0.08       | 1.7    | 3.4    | 1.9    | 0.025 (J)    |
| 6/12/2018  | <0.08        |        |             |        | <0.08       |        |        |        | <0.08        |
| 6/13/2018  |              | 4.9    | 0.11        | 1.4    |             |        | 1.6    | 3      | 1.2          |
| 10/9/2018  | <0.08        |        |             |        | <0.08       |        |        |        | <0.08        |
| 10/10/2018 |              | 5.1    | 0.096 (J)   | 1.4    |             |        | 1.6    | 3      | 1.2          |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | <0.08        |        |             |        | <0.08       |        |        |        | <0.08        |
| 3/26/2019  |              | 5.1    | 0.079 (J)   | 1.5    |             |        | 1.5    | 2.6    | 1.3          |
| 9/10/2019  | <0.08        | 4.8    | 0.097       | 1.5    | <0.08       | 1.5    | 2.4    | 1.5    | <0.08        |
| 3/9/2020   | 0.045 (J)    |        |             |        |             |        |        |        | <0.08        |
| 3/10/2020  |              | 4      | 0.051 (J)   | 1.4    | <0.08       | 1.3    | 2.3    | 1.9    |              |
| 9/16/2020  | <0.08        |        | 0.041 (J)   |        | <0.08       |        | 2.1    |        | 0.045 (J)    |
| 9/17/2020  |              | 4.4    |             | 1.4    |             |        | 1.2    |        | 1.8          |
| 3/23/2021  | <0.08        |        | <0.08       |        |             |        |        |        | 0.047 (J)    |
| 3/24/2021  |              | 3.6    |             | 1.5    | <0.08       | 1.2    | 2.4    | 0.57   |              |
| 8/23/2021  | <0.08        |        |             |        | <0.08       | 0.97   | 2.2    |        | 0.043 (J)    |
| 8/24/2021  |              |        | <0.08       |        | <0.08       |        |        |        |              |
| 8/25/2021  |              | 4.2    |             | 1.6    |             |        |        | 1.7    |              |
| 2/22/2022  | <0.08        |        | <0.08       |        | <0.08       |        |        | 1.7    | <0.08        |
| 2/23/2022  |              | 4.1    |             | 2.1    |             |        | 0.83   | 2      |              |
| 8/2/2022   | <0.08        |        | <0.08       |        | <0.08       |        |        |        | <0.08        |
| 8/3/2022   |              |        |             | 2.3    |             |        | 0.76   |        | 1.7          |
| 8/4/2022   |              | 4.3    |             |        |             |        |        | 1.9    |              |
| 2/7/2023   | <0.08        |        | 0.028 (J)   |        | 0.022 (J)   | 0.63   |        |        | 0.028 (J)    |
| 2/8/2023   |              | 3.9    |             | 2.1    |             |        |        | 1.8    | 1.5          |
| 8/1/2023   | 0.035 (J)    | 4.3    | 0.057 (J)   |        | 0.037 (J)   | 0.65   |        |        | 1.6          |
| 8/2/2023   |              |        |             | 2.2    |             |        |        | 1.8    | 0.045 (J)    |

# Prediction Limit

Page 2

Constituent: Boron (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg)        |
|------------|---------------------|
| 5/5/2016   |                     |
| 5/6/2016   |                     |
| 6/20/2016  |                     |
| 6/21/2016  | 0.0201 (J)          |
| 8/15/2016  |                     |
| 8/16/2016  | 0.055               |
| 9/28/2016  |                     |
| 9/29/2016  | <0.08               |
| 11/16/2016 | 0.055               |
| 1/16/2017  |                     |
| 1/17/2017  |                     |
| 1/18/2017  | 0.097               |
| 1/19/2017  |                     |
| 3/2/2017   | 0.064               |
| 4/18/2017  |                     |
| 4/19/2017  |                     |
| 4/25/2017  | <0.08               |
| 7/13/2017  | <0.08               |
| 10/10/2017 | <0.08               |
| 6/12/2018  | <0.08               |
| 6/13/2018  |                     |
| 10/9/2018  |                     |
| 10/10/2018 | 0.034 (J)           |
| 1/29/2019  | <0.08               |
| 3/25/2019  | <0.08               |
| 3/26/2019  | 0.032 (J)           |
| 9/10/2019  | 0.06 (J) 0.04 (J)   |
| 3/9/2020   |                     |
| 3/10/2020  | <0.08 <0.08         |
| 9/16/2020  | <0.08 0.04 (J)      |
| 9/17/2020  |                     |
| 3/23/2021  | <0.08               |
| 3/24/2021  | <0.08               |
| 8/23/2021  |                     |
| 8/24/2021  | <0.08               |
| 8/25/2021  | 0.11                |
| 2/22/2022  | <0.08 <0.08         |
| 2/23/2022  |                     |
| 8/2/2022   | 0.071 (J) <0.08     |
| 8/3/2022   |                     |
| 8/4/2022   |                     |
| 2/7/2023   | 0.067 (J) 0.039 (J) |
| 2/8/2023   |                     |
| 8/1/2023   | <0.08 0.038 (J)     |
| 8/2/2023   | 0.062 (J)           |

## Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-2 | MGWC-1 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 8.83         | 41.2   | 105         | 45     | 27          |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 109    | 131    | 92.5   |              |
| 6/20/2016  | 8.1          |        |             |        | 29.4        |        |        |        | 35.5         |
| 6/21/2016  |              | 44.7   | 91.2        | 52.8   |             | 99.7   | 119    | 119    |              |
| 8/15/2016  | 6.1          | 27     | 94          | 50     | 26          |        |        |        | 34           |
| 8/16/2016  |              |        |             |        |             | 97     | 120    | 84     |              |
| 9/28/2016  | 7.2          | 32     | 110         | 58     | 31          |        |        | 92     | 38           |
| 9/29/2016  |              |        |             |        |             | 100    | 140    |        |              |
| 11/16/2016 | 5.2          | 27     | 98          | 50     | 26          | 94     | 120    | 83     | 33           |
| 1/16/2017  | 3.8          |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 32     | 100         | 52     | 29          | 100    |        |        | 34           |
| 1/18/2017  |              |        |             |        |             |        | 130    |        |              |
| 1/19/2017  |              |        |             |        |             |        |        | 110    |              |
| 3/2/2017   | 5.4          | 33     | 100         | 52     | 28          | 99     | 120    | 89     | 35           |
| 4/18/2017  | 5            | 59     | 110         | 56     | 27          | 120    |        | 100    | 33           |
| 4/19/2017  |              |        |             |        |             |        | 120    |        |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 30           |
| 10/10/2017 | 4.8          | 74     | 110         | 56     | 31          | 110    | 130    | 120    | 39           |
| 6/12/2018  | 4.8          |        |             |        | 25          |        |        |        | 26           |
| 6/13/2018  |              | 84     | 100         | 51     |             | 100    | 120    | 100    |              |
| 10/9/2018  | 4.5          |        |             |        | 29          |        |        |        | 29           |
| 10/10/2018 |              | 87     | 100         | 51     |             | 96     | 120    | 100    |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | 4.6          |        |             |        | 27          |        |        |        | 37           |
| 3/26/2019  |              | 96     | 100         | 52     |             | 99     | 110    | 100    |              |
| 9/10/2019  | 4.9          | 97     | 110         | 53     | 27          | 99     | 110    | 110    | 36           |
| 3/9/2020   | 4            |        |             |        |             |        |        |        | 32           |
| 3/10/2020  |              | 100    | 100         | 55     | 29          | 110    | 110    | 120    |              |
| 9/16/2020  | 6.8          |        | 100         |        | 28          |        | 110    |        | 30           |
| 9/17/2020  |              | 100    |             | 48     |             | 110    |        | 110    |              |
| 3/23/2021  | 4            |        | 110         |        |             |        |        |        | 42           |
| 3/24/2021  |              | 120    |             | 51     | 28          | 120    | 120    | 100    |              |
| 8/23/2021  | 5.8          |        | 100         |        | 27          | 110    | 110    |        | 34           |
| 8/24/2021  |              |        |             | 59     |             |        |        |        |              |
| 8/25/2021  |              | 96     |             |        |             |        |        | 120    |              |
| 2/22/2022  | 3.3          |        | 97          |        | 25          |        |        | 100    | 36           |
| 2/23/2022  |              | 97     |             | 61     |             | 120    | 100    |        |              |
| 8/2/2022   | 3.1          |        | 110         |        | 26          |        |        |        | 36           |
| 8/3/2022   |              |        |             | 66     |             | 110    |        | 110    |              |
| 8/4/2022   |              | 100    |             |        |             |        | 98     |        |              |
| 2/7/2023   | 3.6          |        | 110         |        | 26          | 110    |        |        | 34           |
| 2/8/2023   |              | 110    |             | 65     |             |        | 100    | 110    |              |
| 8/1/2023   | 3.9          | 120    | 110         |        | 28          | 120    |        | 110    | 39           |
| 8/2/2023   |              |        |             | 57     |             |        | 100    |        |              |

# Prediction Limit

Page 2

Constituent: Calcium (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 25.5         |
| 8/15/2016  |              |
| 8/16/2016  | 25           |
| 9/28/2016  |              |
| 9/29/2016  | 30           |
| 11/16/2016 | 26           |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 32           |
| 1/19/2017  |              |
| 3/2/2017   | 26           |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 26           |
| 7/13/2017  | 26           |
| 10/10/2017 | 28           |
| 6/12/2018  | 30           |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 35           |
| 1/29/2019  | 95.1         |
| 3/25/2019  | 89           |
| 3/26/2019  | 33           |
| 9/10/2019  | 33           |
| 3/9/2020   | 86           |
| 3/10/2020  | 30           |
| 9/16/2020  | 90           |
| 9/17/2020  | 25           |
| 9/17/2020  | 93           |
| 3/23/2021  |              |
| 3/24/2021  | 97           |
| 3/24/2021  | 32           |
| 8/23/2021  |              |
| 8/24/2021  |              |
| 8/24/2021  | 83           |
| 8/25/2021  | 31           |
| 2/22/2022  | 35           |
| 2/23/2022  | 90           |
| 8/2/2022   | 34           |
| 8/3/2022   | 94           |
| 8/4/2022   |              |
| 2/7/2023   | 30           |
| 2/8/2023   | 99           |
| 8/1/2023   |              |
| 8/2/2023   | 110          |
| 8/2/2023   | 31           |

## Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-2 | MGWC-1 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 7.35         | 10.1   | 9.67        | 13     | 6.51        |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 12.5   | 41     | 13.2   |              |
| 6/20/2016  | 7            |        |             |        | 5.9         |        |        |        | 4.3          |
| 6/21/2016  |              | 10     | 9.2         | 13     |             | 13     | 20     | 15     |              |
| 8/15/2016  | 7.5          | 9.5    | 10          | 14     | 6.4         |        |        |        | 4.1          |
| 8/16/2016  |              |        |             |        |             | 13     | 20     | 14     |              |
| 9/28/2016  | 7            | 9.2    | 10          | 13     | 6.1         |        |        | 14     | 3.9          |
| 9/29/2016  |              |        |             |        |             | 13     | 19     |        |              |
| 11/16/2016 | 7.5          | 9.5    | 10          | 13     | 6.1         | 14     | 20     | 14     | 4.1          |
| 1/16/2017  | 7.7          |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 10     | 9.4         | 13     | 5.7         | 14     |        |        | 3.9          |
| 1/18/2017  |              |        |             |        |             |        | 18     |        |              |
| 1/19/2017  |              |        |             |        |             |        |        | 14     |              |
| 3/2/2017   | 6.9          | 9.3    | 8.6         | 13     | 5.3         | 13     | 18     | 13     | 3.5          |
| 4/18/2017  | 6.8          | 10     | 8.9         | 12     | 5.3         | 13     |        | 13     | 3.7          |
| 4/19/2017  |              |        |             |        |             |        | 17     |        |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 4.2          |
| 10/10/2017 | 6.9          | 11     | 8.3         | 12     | 5.3         | 14     | 16     | 14     | 3.4          |
| 6/12/2018  | 6.7          |        |             |        | 5.1         |        |        |        | 4.6          |
| 6/13/2018  |              | 11     | 7           | 12     |             | 13     | 16     | 13     |              |
| 10/9/2018  | 7.1          |        |             |        | 5.6         |        |        |        | 4.5          |
| 10/10/2018 |              | 10     | 6.9         | 12     |             | 14     | 15     | 14     |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | 6.8          |        |             |        | 4.7         |        |        |        | 3.4          |
| 3/26/2019  |              | 11     | 5.8         | 11     |             | 14     | 14     | 13     |              |
| 9/10/2019  | 7            | 10     | 6           | 9.9    | 5.1         | 13     | 13     | 13     | 3.5          |
| 3/9/2020   | 7.4          |        |             |        |             |        |        |        | 4.5          |
| 3/10/2020  |              | 12     | 5.1         | 10     | 5.4         | 15     | 12     | 14     |              |
| 9/16/2020  | 7            |        | 4.3         |        | 5.2         |        | 12     |        | 4.6          |
| 9/17/2020  |              | 10     |             | 9.6    |             | 14     |        | 14     |              |
| 3/23/2021  | 7.8          |        | 4           |        |             |        |        |        | 3.8          |
| 3/24/2021  |              | 18     |             | 10     | 5.5         | 14     | 13     | 14     |              |
| 8/23/2021  | 7.3          |        |             |        |             |        |        |        | 4.4          |
| 8/24/2021  |              |        | 4           |        | 5.5         | 14     | 13     |        |              |
| 8/25/2021  |              | 11     |             | 9.9    |             |        |        | 14     |              |
| 2/22/2022  | 7.1          |        | 4           |        | 5.1         |        |        | 13     | 3.1          |
| 2/23/2022  |              | 11     |             | 9.8    |             | 14     | 13     |        |              |
| 8/2/2022   | 7.4          |        | 2.6         |        | 3.5         |        |        |        | 3.4          |
| 8/3/2022   |              |        |             | 11     |             | 13     |        | 13     |              |
| 8/4/2022   |              | 13     |             |        |             |        | 12     |        |              |
| 2/7/2023   | 7            |        | 3.1         |        | 4.7         | 11     |        |        | 4.2          |
| 2/8/2023   |              | 13     |             | 11     |             |        | 11     | 12     |              |
| 8/1/2023   | 7.4          | 13     | 3.3         |        | 5.2         | 12     |        | 13     | 3.3          |
| 8/2/2023   |              |        |             | 11     |             |        | 12     |        |              |

# Prediction Limit

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Constituent: Chloride (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 4.4          |
| 8/15/2016  |              |
| 8/16/2016  | 4.6          |
| 9/28/2016  |              |
| 9/29/2016  | 4.4          |
| 11/16/2016 | 4.5          |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 4.2          |
| 1/19/2017  |              |
| 3/2/2017   | 3.9          |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 4            |
| 7/13/2017  | 4            |
| 10/10/2017 | 4            |
| 6/12/2018  | 4            |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 4.2          |
| 1/29/2019  | 4.51         |
| 3/25/2019  | 4.4          |
| 3/26/2019  | 3.8          |
| 9/10/2019  | 4.1          |
| 3/9/2020   | 4.2          |
| 3/10/2020  | 4.1          |
| 9/16/2020  | 4            |
| 9/17/2020  | 5.1          |
| 3/23/2021  | 3.7          |
| 3/24/2021  |              |
| 8/23/2021  |              |
| 8/24/2021  | 4.1          |
| 8/25/2021  | 5.7          |
| 2/22/2022  |              |
| 2/23/2022  |              |
| 8/2/2022   | 3.9          |
| 8/3/2022   |              |
| 8/4/2022   |              |
| 2/7/2023   | 4.9          |
| 2/8/2023   |              |
| 8/1/2023   |              |
| 8/2/2023   | 3.3          |
|            |              |
|            | 3.4          |
|            |              |
|            | 4.5          |

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-7   | MGWA-6 (bg) | MGWA-5 (bg) | MGWC-8    | MGWC-2    | MGWC-1    | MGWC-3    | MGWA-11 (bg) |
|------------|--------------|----------|-------------|-------------|-----------|-----------|-----------|-----------|--------------|
| 5/5/2016   | 0.046 (J)    | 0.394    | 0.091 (J)   | 0.132 (J)   | 0.103 (J) |           |           |           |              |
| 5/6/2016   |              |          |             |             |           | 0.088 (J) | 0.28 (J)  | 0.086 (J) |              |
| 6/20/2016  | <0.1         |          |             | 0.05 (J)    |           |           |           |           | 0.06 (J)     |
| 6/21/2016  |              | 0.49     | 0.08 (J)    |             | 0.1 (J)   | 0.19 (J)  | 0.36      | 0.23 (J)  |              |
| 8/15/2016  | <0.1         | 0.44     | <0.1        | 0.1 (J)     | 0.11 (J)  |           |           |           | 0.1 (J)      |
| 8/16/2016  |              |          |             |             |           | 0.087 (J) | 0.27      | <0.1      |              |
| 9/28/2016  | <0.1         | 0.4      | 0.084 (J)   | 0.11 (J)    | 0.1 (J)   |           | 0.26      |           | 0.097 (J)    |
| 9/29/2016  |              |          |             |             |           | <0.1      |           | 0.082 (J) |              |
| 11/16/2016 | <0.1         | 0.36     | 0.084 (J)   | 0.093 (J)   | 0.091 (J) | <0.1      | 0.24      | 0.087 (J) | 0.12 (J)     |
| 1/16/2017  | <0.1         |          |             |             |           |           |           |           |              |
| 1/17/2017  |              | 0.2      | 0.099 (J)   | 0.095 (J)   | <0.1      |           |           | 0.086 (J) | 0.11 (J)     |
| 1/18/2017  |              |          |             |             |           | <0.1      |           |           |              |
| 1/19/2017  |              |          |             |             |           |           | 0.22      |           |              |
| 3/2/2017   | 0.12 (J)     | 0.36     | 0.15 (J)    | 0.16 (J)    | 0.16 (J)  | 0.15 (J)  | 0.27      | 0.15 (J)  | 0.18 (J)     |
| 4/18/2017  | <0.1         | 0.29     | <0.1        | <0.1        | <0.1      |           | 0.2       | <0.1      | 0.11 (J)     |
| 4/19/2017  |              |          |             |             |           | <0.1      |           |           |              |
| 4/25/2017  |              |          |             |             |           |           |           |           |              |
| 7/13/2017  |              |          |             |             |           |           |           |           | 0.12 (J)     |
| 10/10/2017 | <0.1         | 0.28     | <0.1        | <0.1        | <0.1      | <0.1      | 0.18 (J)  | <0.1      | 0.086 (J)    |
| 3/29/2018  | <0.1         | 0.23     | <0.1        | 0.084 (J)   |           |           | 0.16 (J)  |           | <0.1         |
| 3/30/2018  |              |          |             |             | 0.088 (J) | <0.1      |           |           | <0.1         |
| 6/12/2018  | <0.1         |          |             | <0.1        |           |           |           |           | 0.16 (J)     |
| 6/13/2018  |              | 0.2      | <0.1        |             | 0.15 (J)  | <0.1      | 0.14 (J)  | <0.1      |              |
| 10/9/2018  | <0.1         |          |             | 0.086 (J)   |           |           |           |           | 0.16 (J)     |
| 10/10/2018 |              | 0.23     | <0.1        |             | 0.11 (J)  | 0.085 (J) | 0.17 (J)  | <0.1      |              |
| 1/29/2019  |              |          |             |             |           |           |           |           |              |
| 3/25/2019  | <0.1         |          |             | 0.072 (J)   |           |           |           |           | 0.087 (J)    |
| 3/26/2019  |              | 0.19 (J) | 0.065 (J)   |             | 0.088 (J) | 0.076 (J) | 0.16      | 0.072 (J) |              |
| 9/10/2019  | 0.044 (J)    | 0.15     | 0.076 (J)   | 0.068 (J)   | 0.083 (J) | 0.07 (J)  | 0.098 (J) | 0.073 (J) | 0.075 (J)    |
| 3/9/2020   | 0.061 (J)    |          |             |             |           |           |           |           | 0.19         |
| 3/10/2020  |              | 0.18     | 0.045 (J)   | 0.055 (J)   | 0.084 (J) | 0.05 (J)  | 0.086 (J) | 0.058 (J) |              |
| 9/16/2020  | 0.042 (J)    |          | 0.076 (J)   | 0.08 (J)    |           | 0.076 (J) |           |           | 0.18         |
| 9/17/2020  |              | 0.25     |             |             | 0.11      |           | 0.15      | 0.083 (J) |              |
| 3/23/2021  | 0.038 (J)    |          | 0.082 (J)   |             |           |           |           |           | 0.081 (J)    |
| 3/24/2021  |              | 0.35     |             | 0.091 (J)   | 0.11      | 0.11      | 0.27      | 0.092 (J) |              |
| 8/23/2021  | 0.048 (J)    |          |             |             |           |           |           |           | 0.12         |
| 8/24/2021  |              |          | 0.1         | 0.1         |           | 0.095 (J) |           | 0.11      |              |
| 8/25/2021  |              | 0.15     |             |             | 0.038 (J) |           | 0.097 (J) |           |              |
| 2/22/2022  | <0.1         |          | 0.034 (J)   | <0.1        |           |           | 0.047 (J) |           | <0.1         |
| 2/23/2022  |              | 0.22     |             |             | 0.05 (J)  | 0.075 (J) |           | 0.086 (J) |              |
| 8/2/2022   | <0.1         |          | 0.055 (J)   | 0.066 (J)   |           |           |           |           | 0.065 (J)    |
| 8/3/2022   |              | 0.2      |             |             |           |           | 0.12      | 0.079 (J) |              |
| 8/4/2022   |              |          |             |             | 0.087 (J) | 0.072 (J) |           |           |              |
| 2/7/2023   | <0.1         |          | 0.06 (J)    | 0.069 (J)   |           |           |           | 0.076 (J) | 0.07 (J)     |
| 2/8/2023   |              | 0.14     |             |             | 0.084 (J) | 0.074 (J) | 0.11      |           |              |
| 8/1/2023   | <0.1         |          | 0.084 (J)   | 0.094 (J)   | 0.11      |           | 0.15      | 0.1       | 0.094 (J)    |
| 8/2/2023   |              | 0.2      |             |             |           | 0.087 (J) |           |           |              |

# Prediction Limit

Page 2

Constituent: Fluoride (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 0.14 (J)     |
| 8/15/2016  |              |
| 8/16/2016  | 0.29         |
| 9/28/2016  |              |
| 9/29/2016  | 0.26         |
| 11/16/2016 | 0.25         |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 0.26         |
| 1/19/2017  |              |
| 3/2/2017   | 0.28         |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 0.25         |
| 7/13/2017  | 0.21         |
| 10/10/2017 | 0.22         |
| 3/29/2018  | 0.23         |
| 3/30/2018  |              |
| 6/12/2018  | 0.23         |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 0.25         |
| 1/29/2019  | <0.1         |
| 3/25/2019  | 0.067 (J)    |
| 3/26/2019  | 0.22         |
| 9/10/2019  | 0.2          |
| 3/9/2020   |              |
| 3/10/2020  | 0.15         |
| 9/16/2020  | 0.26         |
| 9/17/2020  |              |
| 3/23/2021  | 0.096 (J)    |
| 3/24/2021  | 0.27         |
| 8/23/2021  |              |
| 8/24/2021  | 0.11         |
| 8/25/2021  | 0.19         |
| 2/22/2022  | 0.093 (J)    |
| 2/23/2022  | <0.1         |
| 8/2/2022   | 0.074 (J)    |
| 8/3/2022   |              |
| 8/4/2022   |              |
| 2/7/2023   | 0.25         |
| 2/8/2023   |              |
| 8/1/2023   | 0.081 (J)    |
| 8/2/2023   | 0.25         |

# Prediction Limit

Constituent: pH (SU) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8   | MGWA-6 (bg) | MGWC-7   | MGWA-5 (bg) | MGWC-2   | MGWC-3   | MGWC-1   | MGWA-11 (bg) |
|------------|--------------|----------|-------------|----------|-------------|----------|----------|----------|--------------|
| 5/5/2016   | 5.94         | 5.96     | 7.13        | 7.81     | 7.4         |          |          |          |              |
| 5/6/2016   |              |          |             |          |             | 7.41     | 6.85     | 6.64     |              |
| 6/20/2016  | 5.84 (D)     |          |             |          | 7.63        |          |          |          | 7.82         |
| 6/21/2016  |              | 6        | 7.25        | 7.2      |             | 7.41     | 6.98     | 6.99     |              |
| 8/15/2016  | 5.65         | 5.26     | 7.04        | 7.04     | 7.54        |          | 7.33     | 6.73     | 7.52         |
| 8/16/2016  |              |          |             |          |             |          | 6.73     | 6.48     |              |
| 9/28/2016  | 5.72         | 5.66     | 7.09        | 7        | 7.45        |          |          | 6.7      | 7.66         |
| 9/29/2016  |              |          |             |          |             | 7.42     | 6.81     |          |              |
| 11/16/2016 | 5.65         | 5.33     | 7.6         | 6.73     | 7.39        | 7.87     | 6.69     | 6.66     | 7.51         |
| 1/16/2017  | 5.52         |          |             |          |             |          |          |          |              |
| 1/17/2017  |              | 5.24     | 6.99        | 6.61     | 7.23        |          | 6.77     |          | 7.52         |
| 1/18/2017  |              |          |             |          |             | 7.49     |          |          |              |
| 1/19/2017  |              |          |             |          |             |          |          | 6.81     |              |
| 3/2/2017   | 5.53         | 5.21     | 6.95        | 6.62     | 7.55        | 7.37     | 6.79     | 6.75     | 7.5          |
| 4/18/2017  | 5.64         | 5.85     | 7.02        | 6.7      | 7.43        |          | 6.77     | 6.93     | 7.75         |
| 4/19/2017  |              |          |             |          |             | 7.48     |          |          |              |
| 4/25/2017  |              |          |             |          |             |          |          |          |              |
| 7/13/2017  |              |          |             |          |             |          |          |          | 7.72         |
| 10/10/2017 |              | 5.6      | 7.27        | 6.48     | 5.62        | 7.29     | 7        | 6.99     |              |
| 10/11/2017 | 6.11         |          |             |          |             |          |          |          | 6.35         |
| 3/29/2018  | 5.35         |          | 6.95        | 6.46     | 7.19        |          |          | 6.82     | 7.42         |
| 3/30/2018  |              | 5.16     |             |          |             | 7.31     | 6.68     |          |              |
| 6/12/2018  | 6.23         |          |             |          | 7.55        |          |          |          | 8.02         |
| 6/13/2018  |              | 5.79     | 7.08        | 6.24     |             | 7.37     | 6.83     | 7.01     |              |
| 10/9/2018  | 5.62 (D)     |          |             |          | 7.8 (D)     |          |          |          | 7.79 (D)     |
| 10/10/2018 |              | 5.15 (D) | 7.01 (D)    | 6.12 (D) |             | 7.41 (D) | 6.69 (D) | 7.04 (D) |              |
| 1/28/2019  | 5.49 (D)     |          |             |          |             |          |          |          | 7.4 (D)      |
| 1/29/2019  |              | 5.46 (D) | 6.55 (D)    | 5.93 (D) | 7.63 (D)    | 7.03 (D) | 6.42 (D) | 6.87 (D) |              |
| 3/25/2019  | 5.27 (D)     |          |             |          | 7.44 (D)    |          |          |          | 7.29 (D)     |
| 3/26/2019  |              | 7.14 (D) | 6.57 (D)    | 5.19 (D) |             | 6.68 (D) | 5.96 (D) | 7.01 (D) |              |
| 9/10/2019  | 5.97         | 5.1      | 6.99        | 6.03     | 7.41        | 7.26     | 6.67     | 7.09     | 7.54         |
| 1/28/2020  | 5.78         |          | 7.17        | 6.61     | 7.46        |          |          |          | 7.4          |
| 1/29/2020  |              | 5.76     |             |          |             | 7.3      | 6.68     | 7.19     |              |
| 3/9/2020   | 5.46         |          |             |          |             |          |          |          | 7.58         |
| 3/10/2020  |              | 5.5      | 7           | 6.54     | 7.3         | 7.3      | 6.87     | 7.11     |              |
| 9/16/2020  | 6.37         |          | 6.98        |          | 7.38        | 7.16     |          |          | 7.89         |
| 9/17/2020  |              | 5.22     |             | 6.39     |             |          | 6.68     | 6.95     |              |
| 12/7/2020  |              |          | 7.2         |          |             |          |          |          |              |
| 12/8/2020  |              |          |             |          |             |          | 7.04     | 7.41     |              |
| 3/23/2021  | 5            |          | 6.74        |          |             |          |          |          | 7.06         |
| 3/24/2021  |              | 6.71     |             | 6.26     | 6.88        | 7.24     | 6.73     | 7.14     |              |
| 8/23/2021  | 6.16         |          |             |          |             |          |          |          | 8.12         |
| 8/24/2021  |              |          | 7.11        |          | 7.78        | 7.42     | 6.92     |          |              |
| 8/25/2021  |              | 5.26     |             | 6.85     |             |          |          |          | 7.27         |
| 10/26/2021 |              | 5.99     |             |          |             |          |          |          |              |
| 2/22/2022  | 5.38         |          | 7.14        |          | 7.57        |          |          | 7.32     | 7.6          |
| 2/23/2022  |              | 6.22     |             | 6.91     |             | 7.44     | 6.98     |          |              |
| 8/2/2022   | 5.41         |          | 7.1         |          | 7.45        |          |          |          | 7.57         |
| 8/3/2022   |              |          |             | 6.86     |             |          | 6.91     | 7.23     |              |
| 8/4/2022   |              | 6.5      |             |          |             | 7.37     |          |          |              |
| 2/7/2023   | 5.46         |          | 7.13        |          | 7.85        |          | 7.01     |          | 7.72         |
| 2/8/2023   |              | 6.76     |             | 7.43     |             | 7.44     |          | 7.28     |              |

# Prediction Limit

Page 2

Constituent: pH (SU) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|          | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-2 | MGWC-3 | MGWC-1 | MGWA-11 (bg) |
|----------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 8/1/2023 | 5.46         | 6.77   |             | 7.14   |             | 7.52   |        | 7.09   | 7.3          |
| 8/2/2023 |              |        |             |        | 6.9         |        | 7.31   |        | 7.61         |

# Prediction Limit

Page 3

Constituent: pH (SU) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg)      |
|------------|-------------------|
| 5/5/2016   |                   |
| 5/6/2016   |                   |
| 6/20/2016  |                   |
| 6/21/2016  | 7.61              |
| 8/15/2016  |                   |
| 8/16/2016  | 7.17              |
| 9/28/2016  |                   |
| 9/29/2016  | 6.97              |
| 11/16/2016 | 7.03              |
| 1/16/2017  |                   |
| 1/17/2017  |                   |
| 1/18/2017  | 7.01              |
| 1/19/2017  |                   |
| 3/2/2017   | 7.02              |
| 4/18/2017  |                   |
| 4/19/2017  |                   |
| 4/25/2017  | 7.02              |
| 7/13/2017  | 7.17              |
| 10/10/2017 | 7.24              |
| 10/11/2017 |                   |
| 3/29/2018  | 6.93              |
| 3/30/2018  |                   |
| 6/12/2018  | 7.29              |
| 6/13/2018  |                   |
| 10/9/2018  |                   |
| 10/10/2018 | 7.12 (D)          |
| 1/28/2019  |                   |
| 1/29/2019  | 8.02 (D) 6.93 (D) |
| 3/25/2019  | 7.1 (D)           |
| 3/26/2019  | 7.29 (D)          |
| 9/10/2019  | 10.96 (o) 7.15    |
| 1/28/2020  | 7.25 7.36         |
| 1/29/2020  |                   |
| 3/9/2020   |                   |
| 3/10/2020  | 7.53 7.04         |
| 9/16/2020  | 11.03 (o) 6.89    |
| 9/17/2020  |                   |
| 12/7/2020  |                   |
| 12/8/2020  |                   |
| 3/23/2021  | 6.56              |
| 3/24/2021  | 7.15              |
| 8/23/2021  |                   |
| 8/24/2021  | 7.28              |
| 8/25/2021  | 7.44              |
| 10/26/2021 |                   |
| 2/22/2022  | 7.41 7.2          |
| 2/23/2022  |                   |
| 8/2/2022   | 7.06 7.27         |
| 8/3/2022   |                   |
| 8/4/2022   |                   |
| 2/7/2023   | 6.95 7.24         |
| 2/8/2023   |                   |

## Prediction Limit

Page 4

Constituent: pH (SU) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|          | MGWC-12 | MGWA-6A (bg) |
|----------|---------|--------------|
| 8/1/2023 |         | 7.2          |
| 8/2/2023 |         | 7.2          |

## Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-2 | MGWC-1 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 2.46         | 144    | 17.8        | 116    | 4.47        |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 94.2   | 445    | 106    |              |
| 6/20/2016  | 2.5          |        |             |        | 7.7         |        |        |        | 1            |
| 6/21/2016  |              | 160    | 17          | 170    |             | 95     | 290    | 210    |              |
| 8/15/2016  | 1.9          | 120    | 20          | 170    | 7.5         |        |        |        | 0.73 (J)     |
| 8/16/2016  |              |        |             |        |             | 88     | 270    | 120    |              |
| 9/28/2016  | 1.9          | 130    | 21          | 170    | 7.8         |        |        | 110    | <1           |
| 9/29/2016  |              |        |             |        |             | 94     | 280    |        |              |
| 11/16/2016 | 1.7          | 130    | 20          | 170    | 6.7         | 97     | 280    | 130    | <1           |
| 1/16/2017  | <1           |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 150    | 19          | 180    | 6.7         | 100    |        |        | <1           |
| 1/18/2017  |              |        |             |        |             |        | 280    |        |              |
| 1/19/2017  |              |        |             |        |             |        |        | 160    |              |
| 3/2/2017   | 1.4          | 160    | 15          | 180    | 5.6         | 100    | 240    | 130    | <1           |
| 4/18/2017  | 1.3          | 180    | 14          | 160    | 5.1         | 91     |        | 120    | <1           |
| 4/19/2017  |              |        |             |        |             |        | 250    |        |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 1.4          |
| 10/10/2017 | 1.1          | 260    | 11          | 180    | 4.9         | 110    | 240    | 170    | 0.87 (J)     |
| 6/12/2018  | 0.82 (J)     |        |             |        | 3.8         |        |        |        | 4.1          |
| 6/13/2018  |              | 330    | 8.7         | 180    |             |        | 110    | 220    | 130          |
| 10/9/2018  | 0.82 (J)     |        |             |        | 6.7         |        |        |        | 2.2          |
| 10/10/2018 |              | 410    | 8.7         | 190    |             |        | 110    | 220    | 140          |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | <1           |        |             |        | 3.4 (J)     |        |        |        | <1           |
| 3/26/2019  |              | 420    | 6.3 (J)     | 180    |             | 110    | 190    | 130    |              |
| 9/10/2019  | 1.1          | 420    | 5.6         | 180    | 4.7         | 110    | 180    | 140    | 1.8          |
| 3/9/2020   | 4.2          |        |             |        |             |        |        |        | 3.4          |
| 3/10/2020  |              | 370    | 5           | 170    | 5.2         | 130    | 170    | 140    |              |
| 9/16/2020  | 0.69 (J)     |        | 2.7         |        | 3.2         |        |        | 160    |              |
| 9/17/2020  |              | 380    |             | 160    |             |        | 120    |        | 150          |
| 3/23/2021  | <1           |        | 3.2         |        |             |        |        |        | 1.4          |
| 3/24/2021  |              | 280    |             | 180    | 3.5         | 130    | 180    | 120    |              |
| 8/23/2021  | <1           |        |             |        |             |        |        |        | 3.4          |
| 8/24/2021  |              |        | 3.5         |        | 3.6         | 130    | 160    |        |              |
| 8/25/2021  |              | 420    |             | 180    |             |        |        | 140    |              |
| 2/22/2022  | <1           |        | 5.4         |        | 3.2         |        |        |        | 150          |
| 2/23/2022  |              | 390    |             | 260    |             |        | 150    | 180    |              |
| 8/2/2022   | <1           |        | 2.3         |        | 2.7         |        |        |        | 0.8 (J)      |
| 8/3/2022   |              |        |             | 220    |             |        | 130    |        | 140          |
| 8/4/2022   |              | 350    |             |        |             |        |        | 150    |              |
| 2/7/2023   | <1           |        | 2.3         |        | 2.5         | 120    |        |        | 3.3          |
| 2/8/2023   |              | 280    |             | 220    |             |        |        | 150    | 140          |
| 8/1/2023   | 0.56 (J)     | 280    | 3.2         |        | 2.9         | 110    |        |        | 140          |
| 8/2/2023   |              |        |             | 200    |             |        |        | 150    | 1            |

# Prediction Limit

Page 2

Constituent: Sulfate (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 4            |
| 8/15/2016  |              |
| 8/16/2016  | 2.8          |
| 9/28/2016  |              |
| 9/29/2016  | <1           |
| 11/16/2016 | 3            |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 4.1          |
| 1/19/2017  |              |
| 3/2/2017   | 4.6          |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 4.4          |
| 7/13/2017  | 4.8          |
| 10/10/2017 | 4.9          |
| 6/12/2018  | 4.1          |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 2.5          |
| 1/29/2019  | 7.08         |
| 3/25/2019  | 1.8 (J)      |
| 3/26/2019  | 2.9 (J)      |
| 9/10/2019  | 2.5          |
| 3/9/2020   | 0.6 (J)      |
| 3/10/2020  | 7.8          |
| 9/16/2020  | 2.4          |
| 9/17/2020  | 4.4          |
| 3/23/2021  | 1            |
| 3/24/2021  | 1.7          |
| 3/24/2021  | 7.1          |
| 8/23/2021  |              |
| 8/24/2021  |              |
| 8/25/2021  | 3.3          |
| 2/22/2022  | 6.6          |
| 2/23/2022  | 4.8          |
| 8/2/2022   | 2.1          |
| 8/3/2022   | 3.1          |
| 8/4/2022   |              |
| 2/7/2023   | 2.1          |
| 2/8/2023   | 4.7          |
| 8/1/2023   | 1.6          |
| 8/2/2023   | 4            |
| 8/2/2023   | 4.6          |

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWA-10 (bg) | MGWC-8 | MGWA-6 (bg) | MGWC-7 | MGWA-5 (bg) | MGWC-3 | MGWC-2 | MGWC-1 | MGWA-11 (bg) |
|------------|--------------|--------|-------------|--------|-------------|--------|--------|--------|--------------|
| 5/5/2016   | 78           | 287    | 281         | 272    | 129         |        |        |        |              |
| 5/6/2016   |              |        |             |        |             | 380    | 661    | 282    |              |
| 6/20/2016  | 80           |        |             |        | 156         |        |        |        | 188          |
| 6/21/2016  |              | 297    | 303         | 356    |             | 392    | 692    | 516    |              |
| 8/15/2016  | 58           | 230    | 310         | 330    | 160         |        | 360    | 650    | 360          |
| 8/16/2016  |              |        |             |        |             |        |        | 360    | 180          |
| 9/28/2016  | 29           | 130    | 170         | 180    | 91          |        |        | 190    | 100          |
| 9/29/2016  |              |        |             |        |             | 380    | 640    |        |              |
| 11/16/2016 | 140          | 290    | 340         | 330    | 250         | 420    | 680    | 410    | 270          |
| 1/16/2017  | 36           |        |             |        |             |        |        |        |              |
| 1/17/2017  |              | 240    | 310         | 310    | 140         | 380    |        |        | 170          |
| 1/18/2017  |              |        |             |        |             |        | 630    |        |              |
| 1/19/2017  |              |        |             |        |             |        |        | 400    |              |
| 3/2/2017   | 78           | 270    | 330         | 340    | 170         | 410    | 660    | 360    | 210          |
| 4/18/2017  | 16           | 310    | 290         | 300    | 140         | 360    |        | 360    | 160          |
| 4/19/2017  |              |        |             |        |             |        | 600    |        |              |
| 4/25/2017  |              |        |             |        |             |        |        |        |              |
| 7/13/2017  |              |        |             |        |             |        |        |        | 150          |
| 10/10/2017 | 78           | 450    | 310         | 340    | 190         | 400    | 600    | 480    | 210          |
| 6/12/2018  | 62           |        |             |        | 180         |        |        |        | 150          |
| 6/13/2018  |              | 600    | 230         | 320    |             | 320    | 570    | 390    |              |
| 10/9/2018  | 68           |        |             |        | 170         |        |        |        | 150          |
| 10/10/2018 |              | 410    | 300         | 270    |             | 300    | 470    | 260    |              |
| 1/29/2019  |              |        |             |        |             |        |        |        |              |
| 3/25/2019  | 54           |        |             |        | 150         |        |        |        | 210          |
| 3/26/2019  |              | 630    | 290         | 320    |             | 370    | 530    | 370    |              |
| 9/10/2019  | 14           | 660    | 260         | 260    | 110         | 360    | 470    | 360    | 160          |
| 3/9/2020   | 56           |        |             |        |             |        |        |        | 190          |
| 3/10/2020  |              | 600    | 300         | 370    | 170         | 390    | 540    | 450    |              |
| 9/16/2020  | 44           |        | 300         |        | 150         |        | 530    |        | 150          |
| 9/17/2020  |              | 740    |             | 320    |             | 410    |        | 460    |              |
| 3/23/2021  | 53           |        | 300         |        |             |        |        |        | 220          |
| 3/24/2021  |              | 530    |             | 330    | 150         | 430    | 490    | 380    |              |
| 8/23/2021  | 55           |        |             | 300    |             |        |        |        | 200          |
| 8/24/2021  |              |        | 300         |        | 160         | 450    | 510    |        |              |
| 8/25/2021  |              | 720    |             | 390    |             |        |        | 470    |              |
| 2/22/2022  | 38           |        | 300         |        | 150         |        |        | 420    | 210          |
| 2/23/2022  |              | 630    |             | 390    |             | 450    | 490    |        |              |
| 8/2/2022   | 65           |        | 200         |        | 270         |        |        |        | 210          |
| 8/3/2022   |              |        |             | 400    |             | 430    |        | 440    |              |
| 8/4/2022   |              | 620    |             |        |             |        | 480    |        |              |
| 2/7/2023   | 61           |        | 290         |        | 150         | 410    |        |        | 190          |
| 2/8/2023   |              | 480    |             | 370    |             |        | 440    | 400    |              |
| 8/1/2023   | 57           | 570    | 330         |        | 170         | 420    |        | 450    | 300          |
| 8/2/2023   |              |        |             | 410    |             |        | 520    |        |              |

# Prediction Limit

Page 2

Constituent: TDS (mg/L) Analysis Run 9/26/2023 12:42 PM View: PLs  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

| MGWC-12    | MGWA-6A (bg) |
|------------|--------------|
| 5/5/2016   |              |
| 5/6/2016   |              |
| 6/20/2016  |              |
| 6/21/2016  | 177          |
| 8/15/2016  |              |
| 8/16/2016  | 160          |
| 9/28/2016  |              |
| 9/29/2016  | 190          |
| 11/16/2016 | 240          |
| 1/16/2017  |              |
| 1/17/2017  |              |
| 1/18/2017  | 180          |
| 1/19/2017  |              |
| 3/2/2017   | 170          |
| 4/18/2017  |              |
| 4/19/2017  |              |
| 4/25/2017  | 170          |
| 7/13/2017  | 150          |
| 10/10/2017 | 160          |
| 6/12/2018  | 170          |
| 6/13/2018  |              |
| 10/9/2018  |              |
| 10/10/2018 | 48           |
| 1/29/2019  | 280          |
| 3/25/2019  | 250          |
| 3/26/2019  | 180          |
| 9/10/2019  | 140          |
| 3/9/2020   | 230          |
| 3/10/2020  | 170          |
| 9/16/2020  | 260          |
| 9/17/2020  | 190          |
| 3/23/2021  | 320          |
| 3/24/2021  | 270          |
| 8/23/2021  | 190          |
| 8/24/2021  |              |
| 8/25/2021  | 280          |
| 2/22/2022  | 230          |
| 2/23/2022  | 190          |
| 8/2/2022   | 270          |
| 8/3/2022   | 150          |
| 8/4/2022   | 100 (D)      |
| 2/7/2023   | 8/3/2022     |
| 2/8/2023   | 260          |
| 8/1/2023   | 360          |
| 8/2/2023   | 200          |

## FIGURE E.

### Appendix III Trend Tests - Significant Results

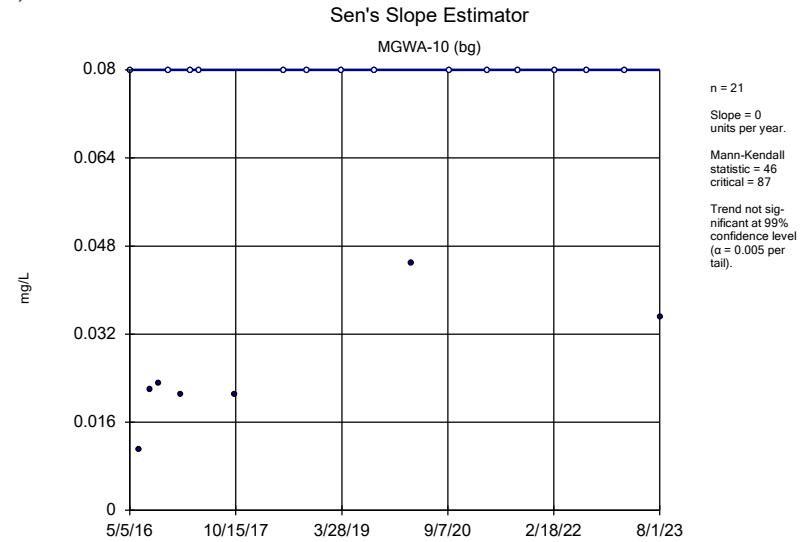
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:47 PM

| <u>Constituent</u> | <u>Well</u>  | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|--------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)       | MGWA-6 (bg)  | -0.01744     | -146         | -87             | Yes         | 21       | 19.05       | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-2       | -0.2577      | -157         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-7       | 0.1234       | 161          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)       | MGWC-8       | 0.5334       | 94           | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)     | MGWA-10 (bg) | -0.3721      | -120         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)     | MGWC-8       | 12.82        | 162          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-5 (bg)  | -0.1829      | -118         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6 (bg)  | -1.104       | -180         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWA-6A (bg) | -0.3253      | -41          | -34             | Yes         | 11       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-2       | -1.414       | -177         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-7       | -0.5069      | -131         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)    | MGWC-8       | 0.4189       | 113          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)    | MGWC-7       | -0.03419     | -138         | -92             | Yes         | 22       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-10 (bg) | -0.1441      | -110         | -87             | Yes         | 21       | 33.33       | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-5 (bg)  | -0.655       | -144         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWA-6 (bg)  | -2.751       | -168         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-2       | -22.11       | -180         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-3       | 6.234        | 139          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-7       | 5.303        | 102          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)     | MGWC-8       | 36.82        | 106          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-2       | -31.09       | -148         | -87             | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)         | MGWC-8       | 64.38        | 114          | 87              | Yes         | 21       | 0           | n/a              | n/a          | 0.01         | NP            |

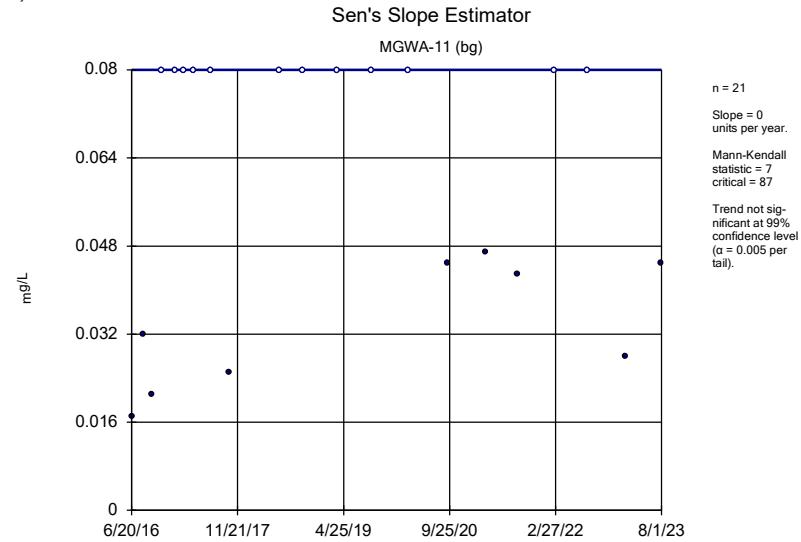
### Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:47 PM

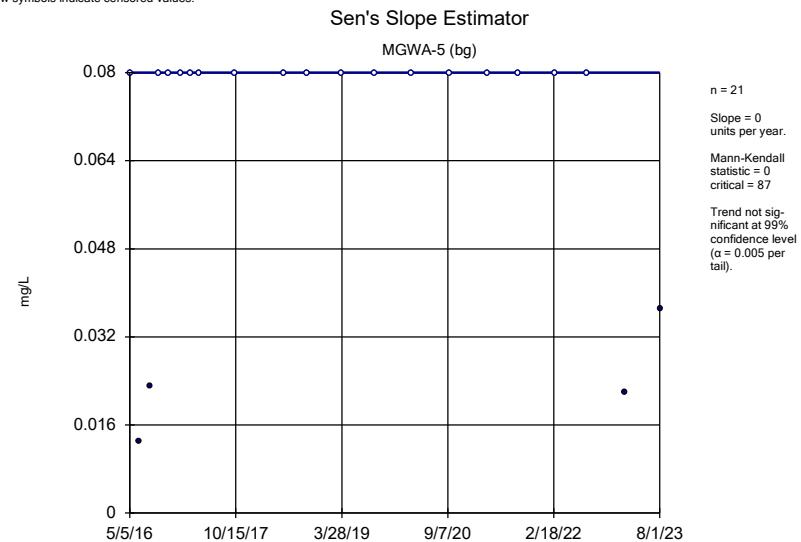
| <u>Constituent</u>     | <u>Well</u>         | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u>  | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------------|-----------------|--------------|-----------------|-------------|-----------|--------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)           | MGWA-10 (bg)        | 0               | 46           | 87              | No          | 21        | 66.67        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-11 (bg)        | 0               | 7            | 87              | No          | 21        | 57.14        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-5 (bg)         | 0               | 0            | 87              | No          | 21        | 80.95        | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWA-6 (bg)</b>  | <b>-0.01744</b> | <b>-146</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>19.05</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWA-6A (bg)        | 0               | -15          | -34             | No          | 11        | 63.64        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWC-1              | 0.1222          | 86           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-2</b>       | <b>-0.2577</b>  | <b>-157</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWC-3              | -0.05072        | -47          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-7</b>       | <b>0.1234</b>   | <b>161</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Boron (mg/L)</b>    | <b>MGWC-8</b>       | <b>0.5334</b>   | <b>94</b>    | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Calcium (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.3721</b>  | <b>-120</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Calcium (mg/L)         | MGWA-11 (bg)        | 0.1578          | 20           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-5 (bg)         | -0.1849         | -41          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-6 (bg)         | 0               | 52           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-6A (bg)        | 2.58            | 22           | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWC-3              | 2.033           | 83           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium (mg/L)</b>  | <b>MGWC-8</b>       | <b>12.82</b>    | <b>162</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-10 (bg)        | 0               | 15           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-11 (bg)        | -0.05994        | -35          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWA-5 (bg)</b>  | <b>-0.1829</b>  | <b>-118</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWA-6 (bg)</b>  | <b>-1.104</b>   | <b>-180</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWA-6A (bg)</b> | <b>-0.3253</b>  | <b>-41</b>   | <b>-34</b>      | <b>Yes</b>  | <b>11</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-1              | 0               | -63          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-2</b>       | <b>-1.414</b>   | <b>-177</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-3              | 0               | 18           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.5069</b>  | <b>-131</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWC-8</b>       | <b>0.4189</b>   | <b>113</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Fluoride (mg/L)        | MGWA-10 (bg)        | 0               | -32          | -92             | No          | 22        | 68.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-11 (bg)        | -0.003001       | -22          | -92             | No          | 22        | 9.091        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-5 (bg)         | -0.003922       | -64          | -92             | No          | 22        | 18.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6 (bg)         | -0.004687       | -62          | -92             | No          | 22        | 27.27        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6A (bg)        | 0.001044        | 3            | 34              | No          | 11        | 18.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWC-12             | -0.01043        | -62          | -92             | No          | 22        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Fluoride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.03419</b> | <b>-138</b>  | <b>-92</b>      | <b>Yes</b>  | <b>22</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.1441</b>  | <b>-110</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>33.33</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-11 (bg)        | 0.115           | 46           | 87              | No          | 21        | 28.57        | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-5 (bg)</b>  | <b>-0.655</b>   | <b>-144</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-6 (bg)</b>  | <b>-2.751</b>   | <b>-168</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-6A (bg)        | 0.1028          | 4            | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWC-1              | 2.229           | 51           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-2</b>       | <b>-22.11</b>   | <b>-180</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-3</b>       | <b>6.234</b>    | <b>139</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-7</b>       | <b>5.303</b>    | <b>102</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-8</b>       | <b>36.82</b>    | <b>106</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWA-10 (bg)        | -2.607          | -41          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-11 (bg)        | 5.017           | 46           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-5 (bg)         | 1.841           | 26           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6 (bg)         | 0               | -18          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6A (bg)        | 5.112           | 6            | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-1              | 11.69           | 56           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-2</b>       | <b>-31.09</b>   | <b>-148</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWC-3              | 6.863           | 70           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-7              | 11.6            | 85           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-8</b>       | <b>64.38</b>    | <b>114</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |



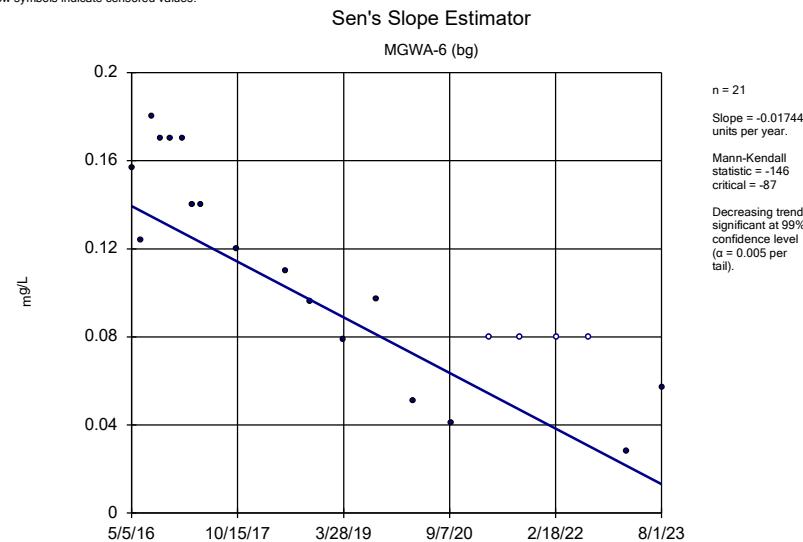
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



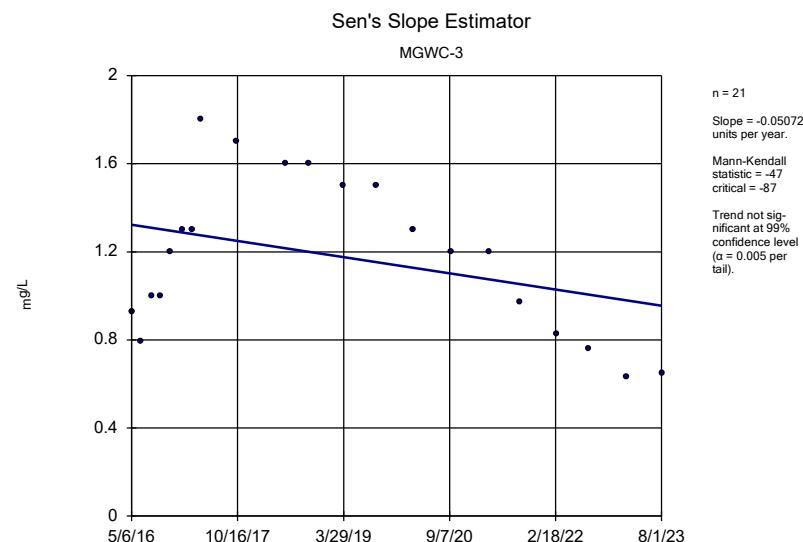
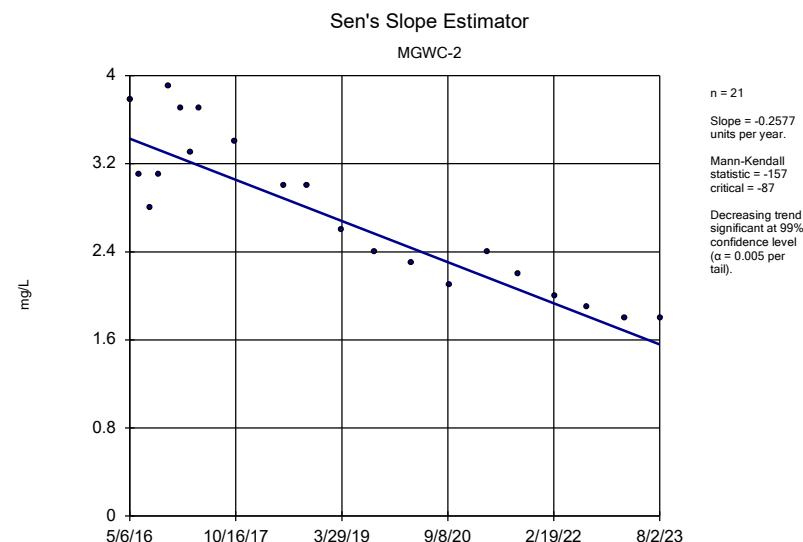
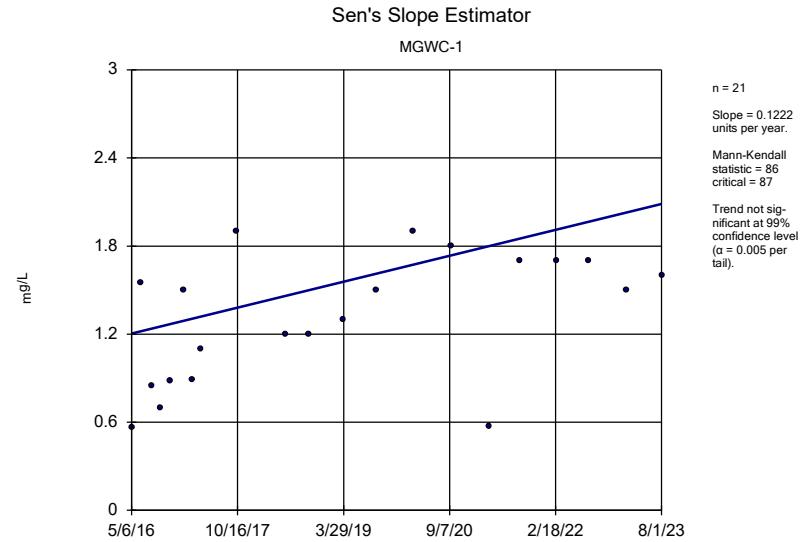
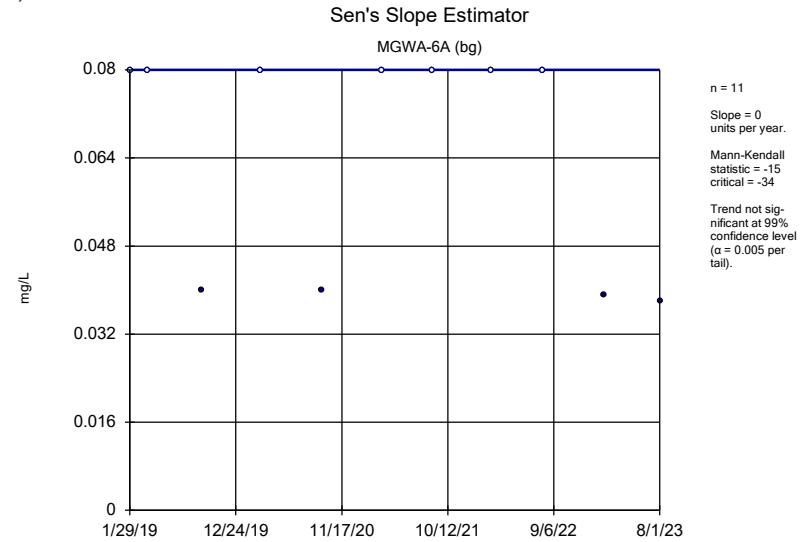
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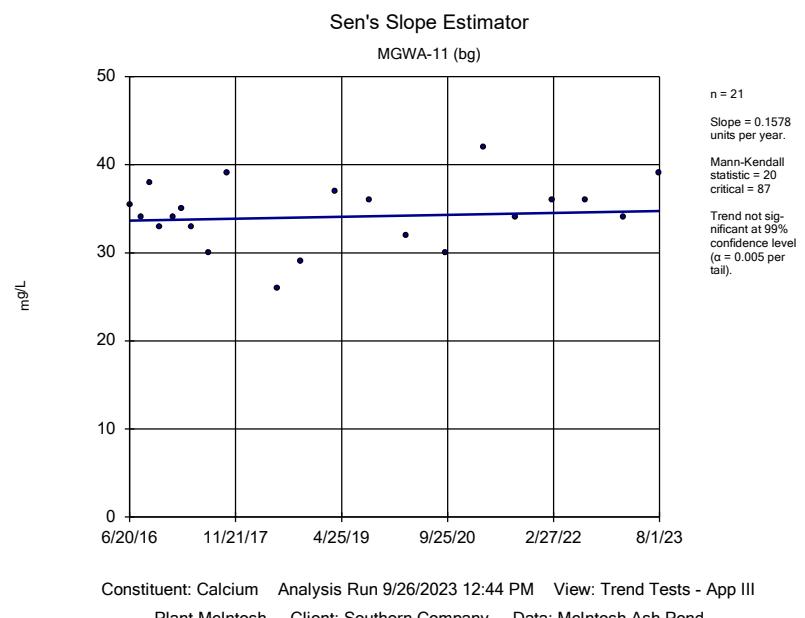
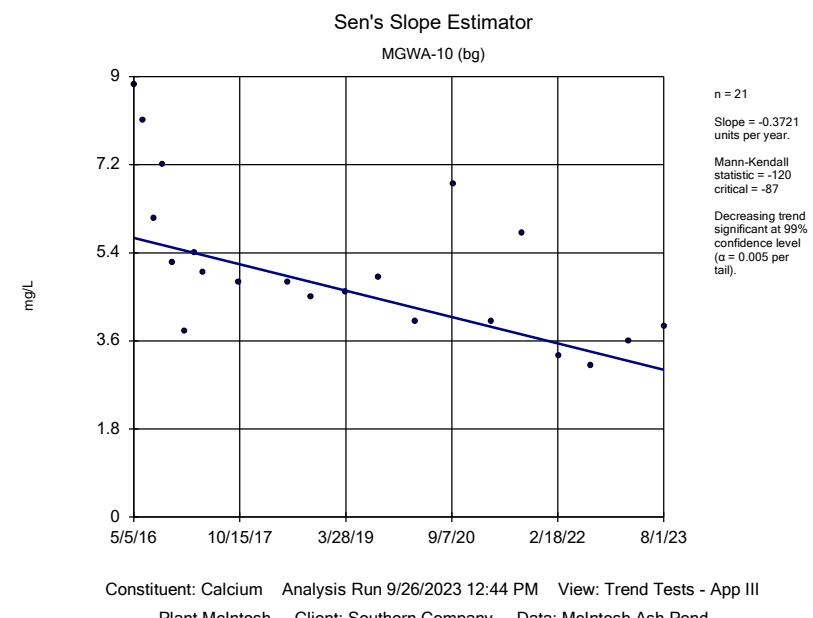
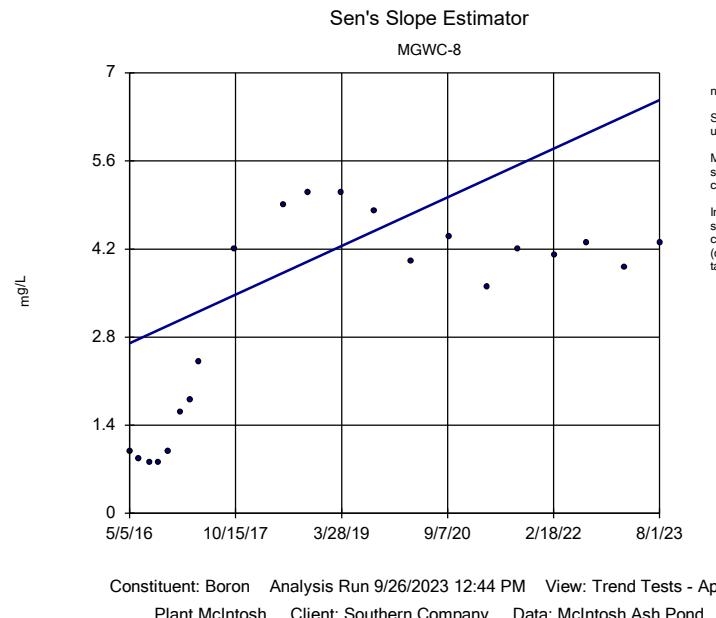
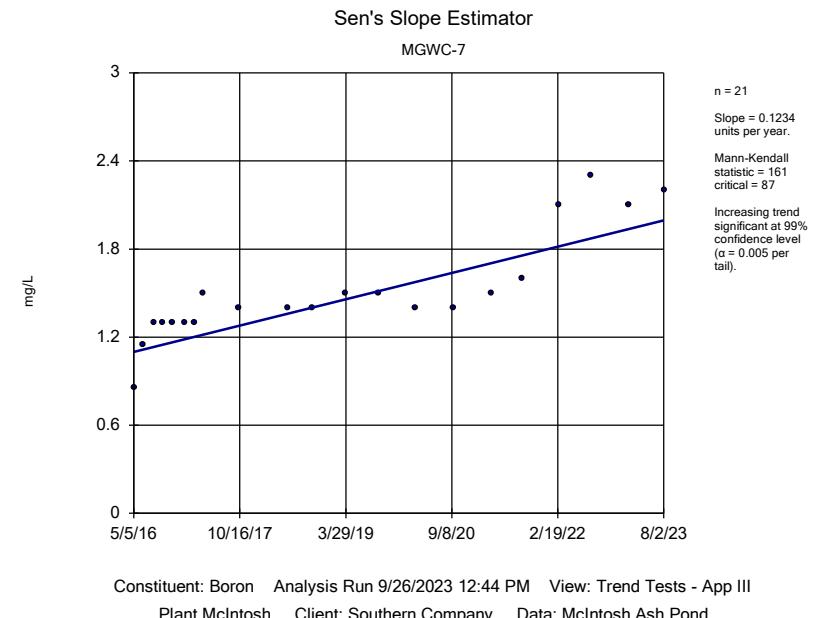


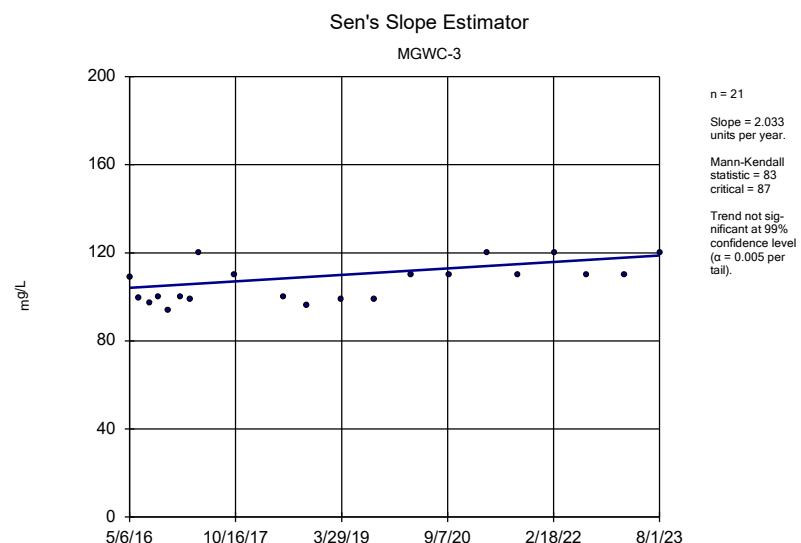
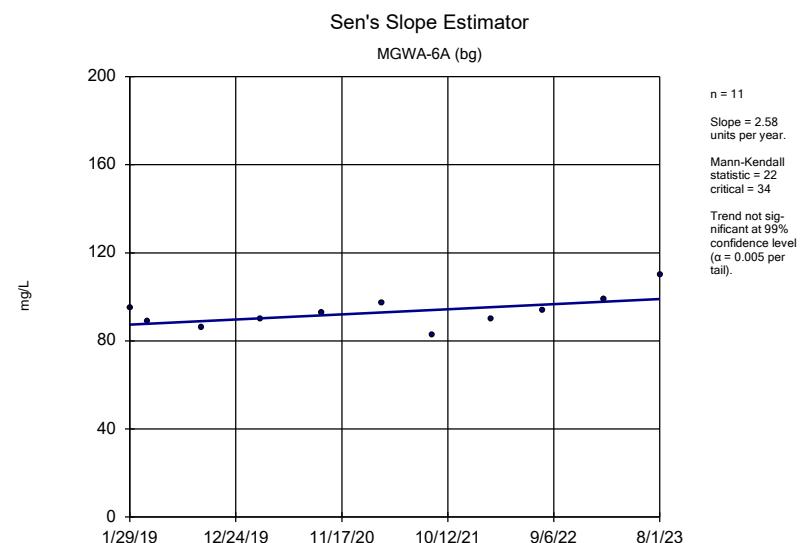
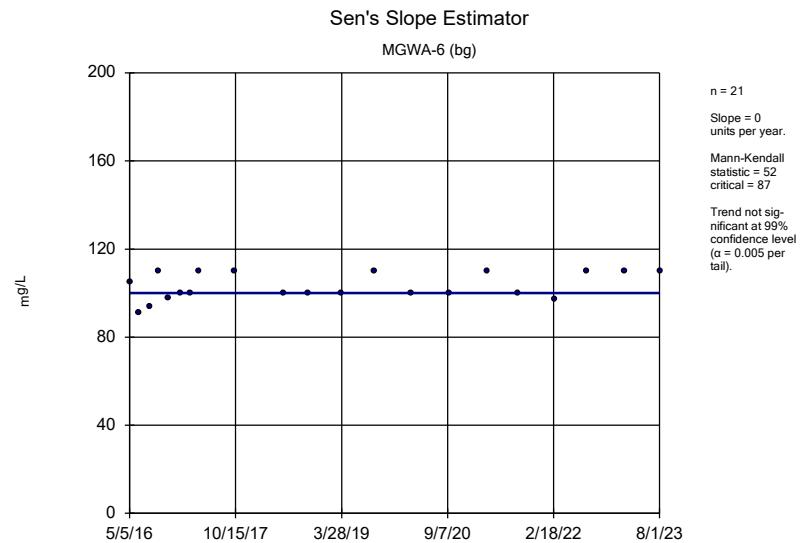
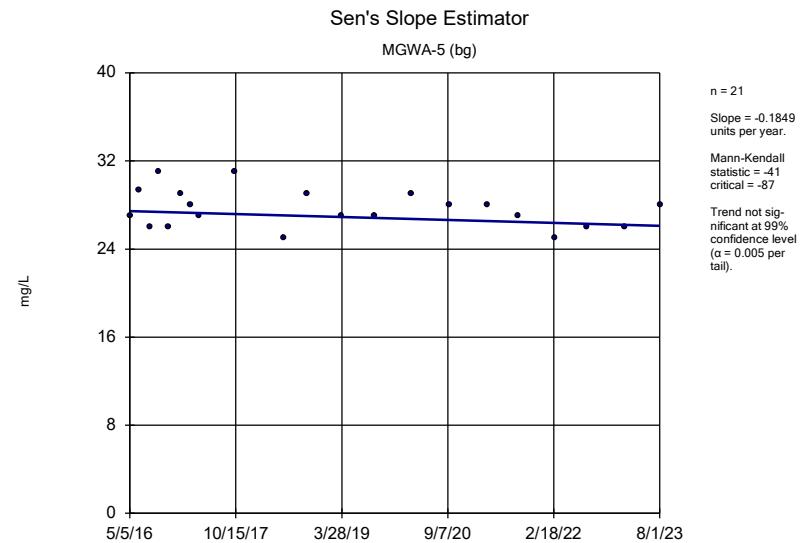
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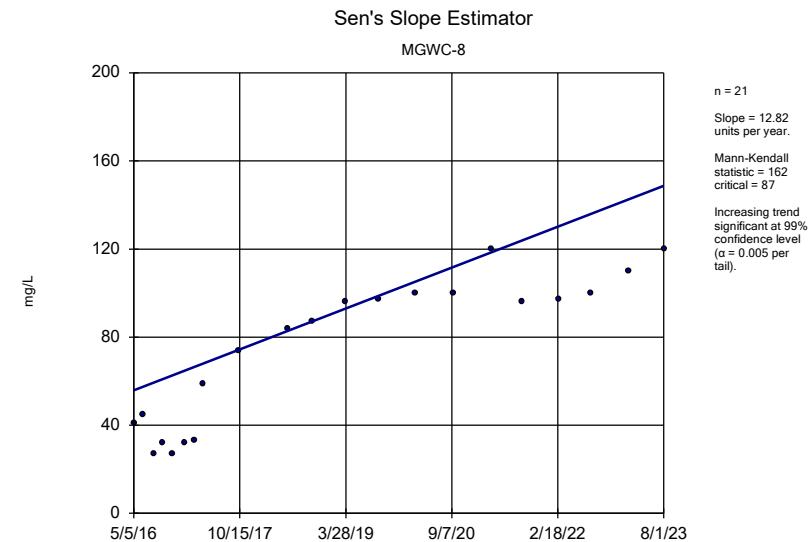


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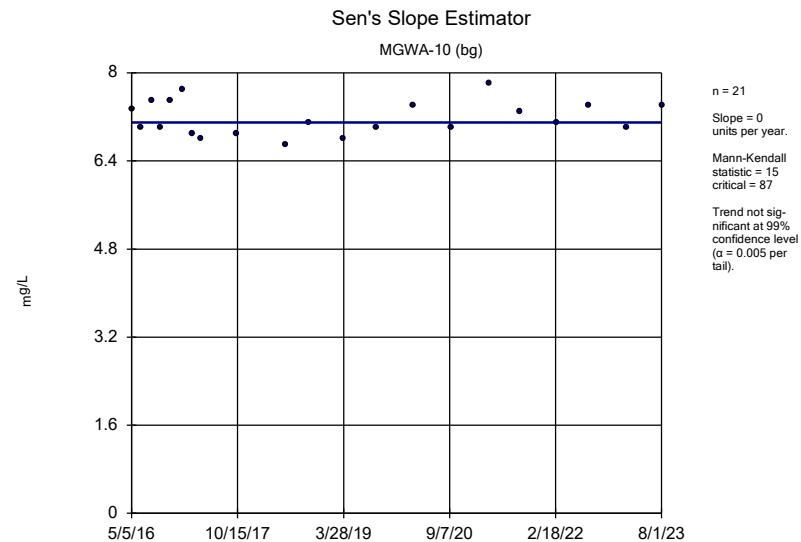




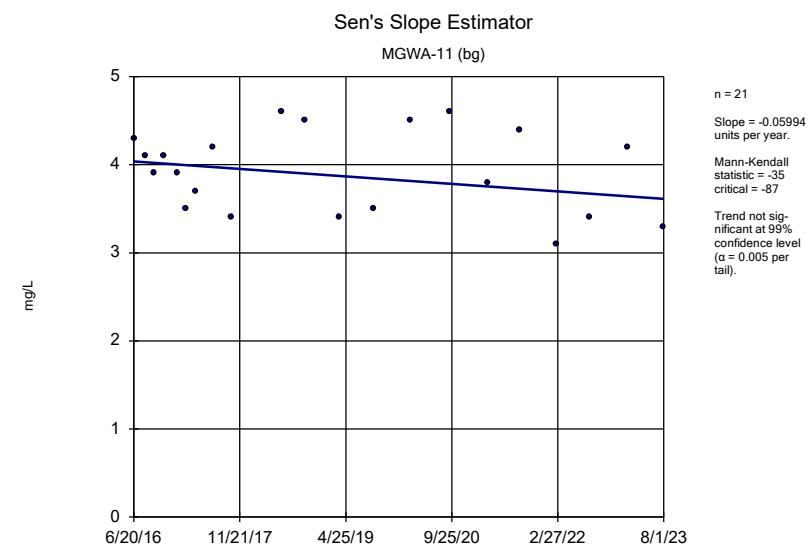




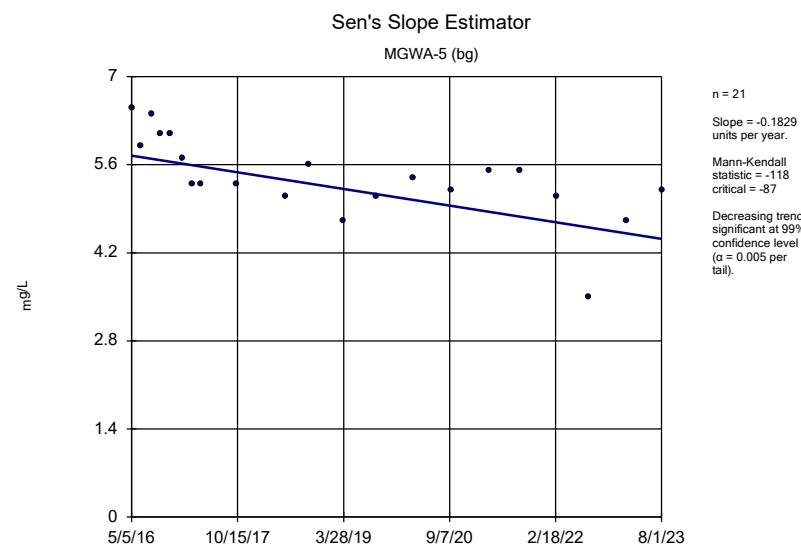
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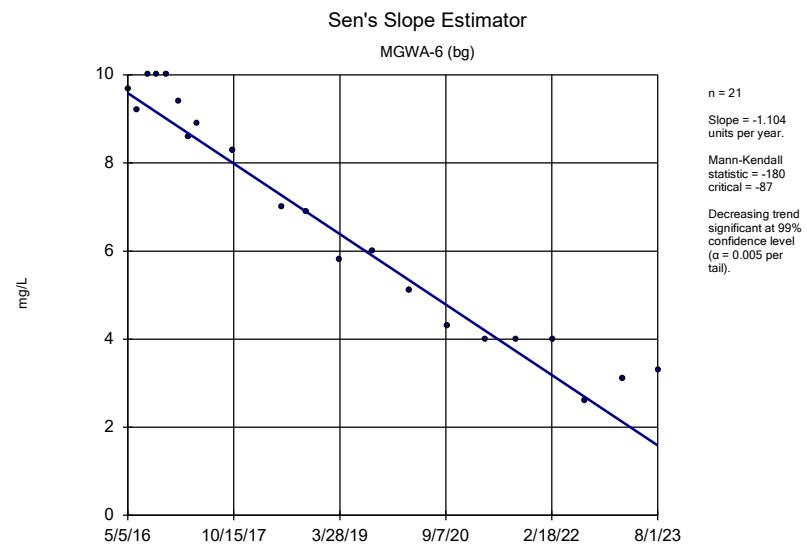
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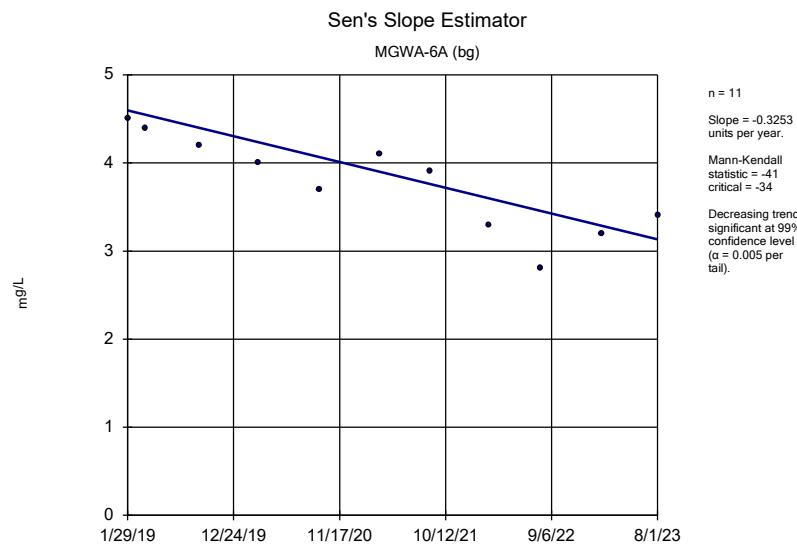
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



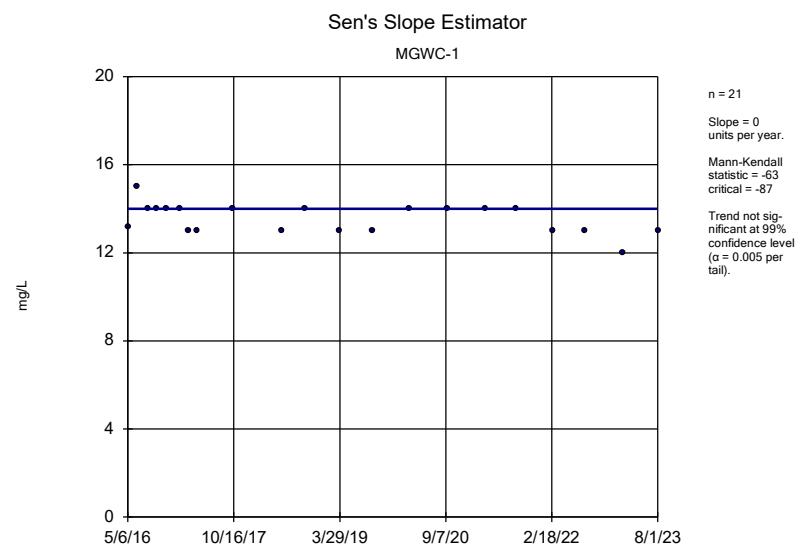
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



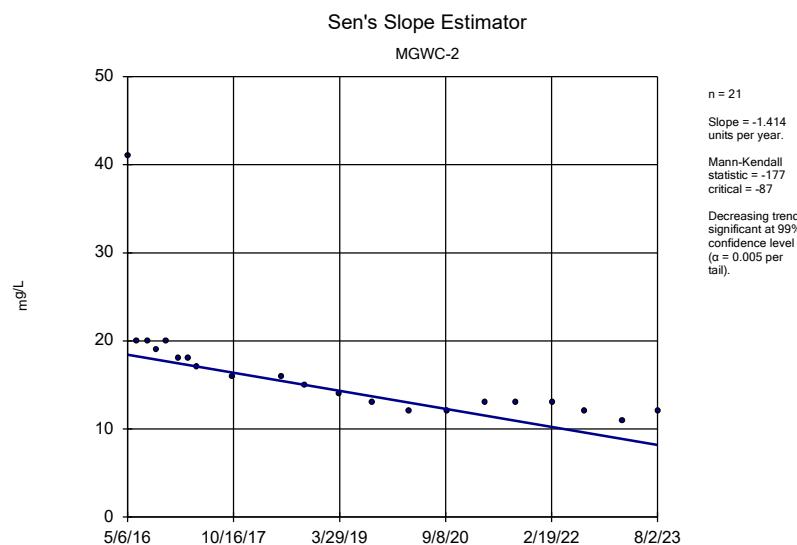
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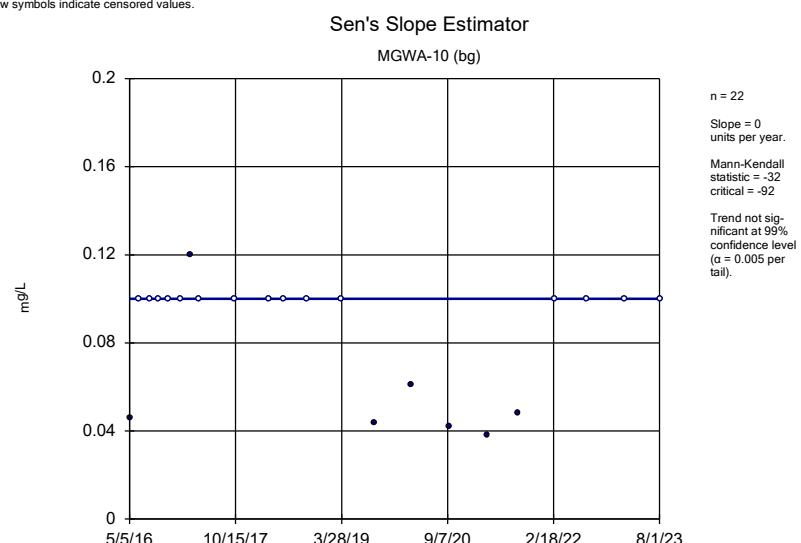
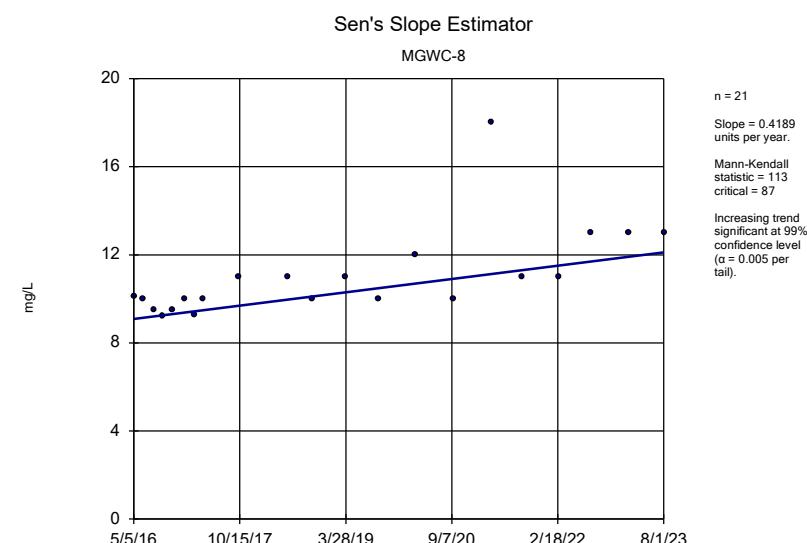
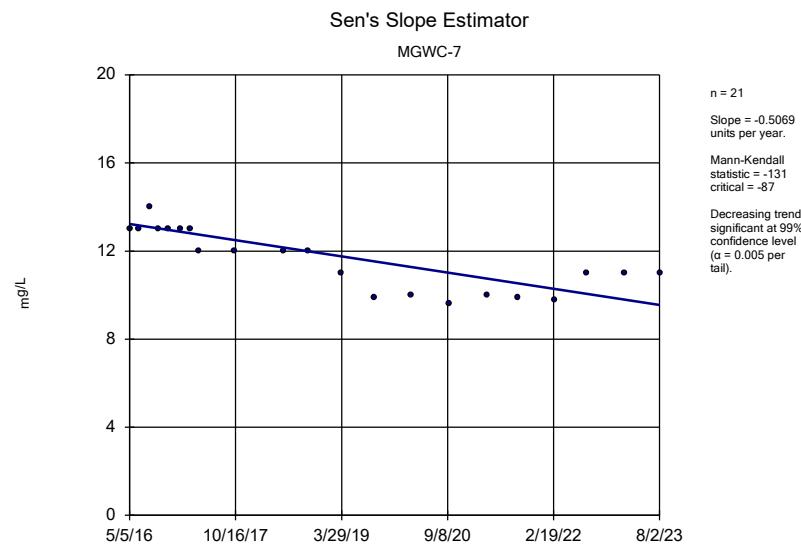
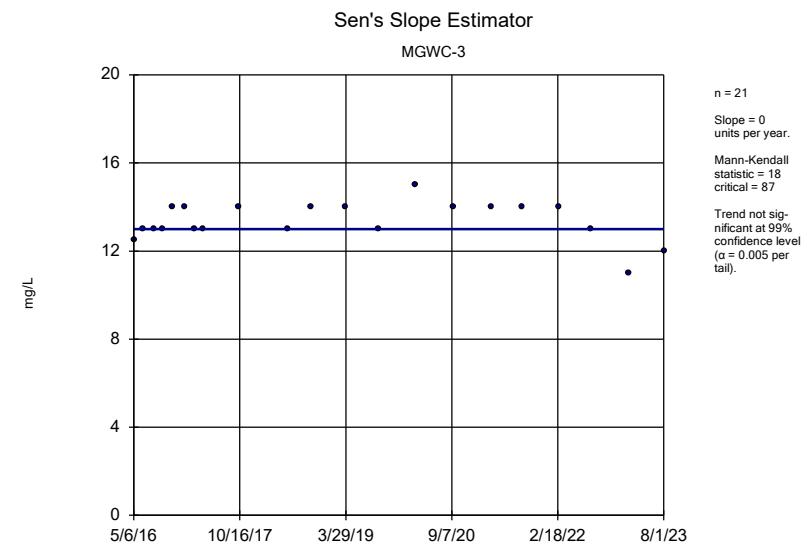
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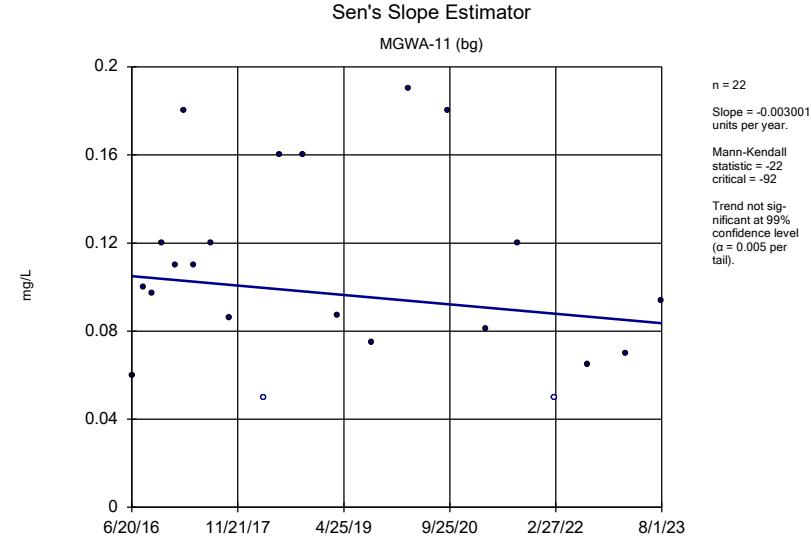


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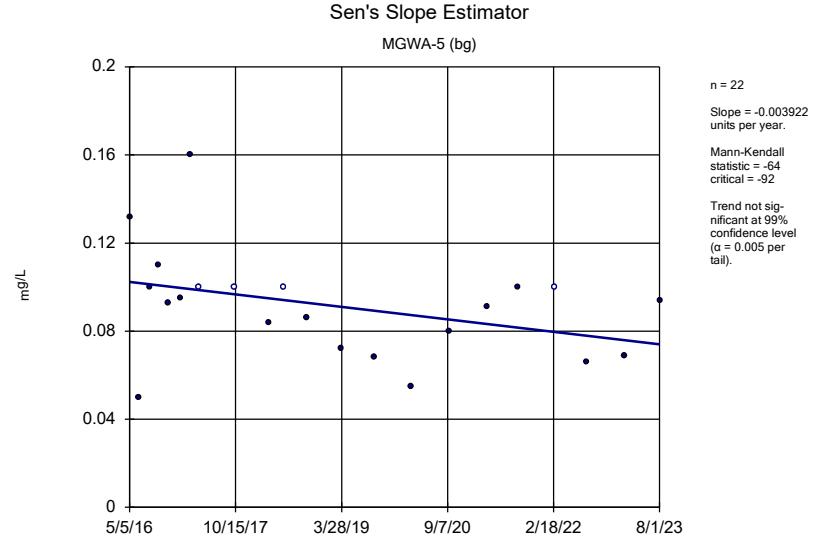


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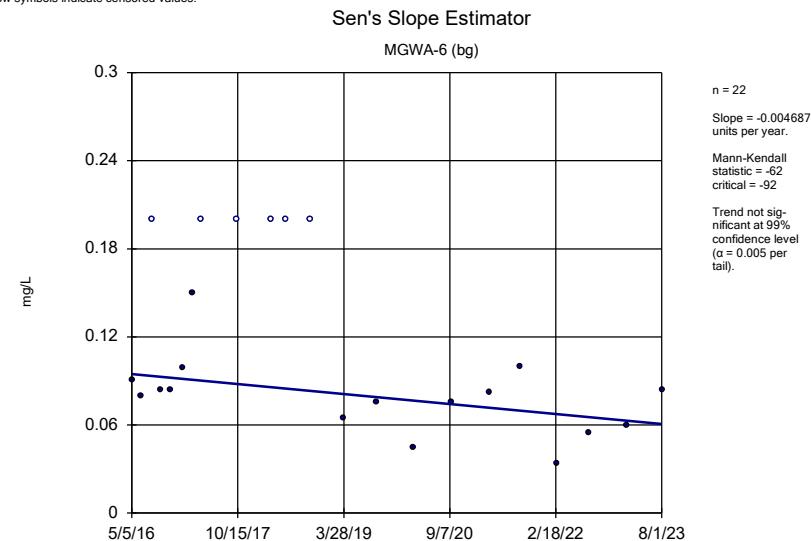




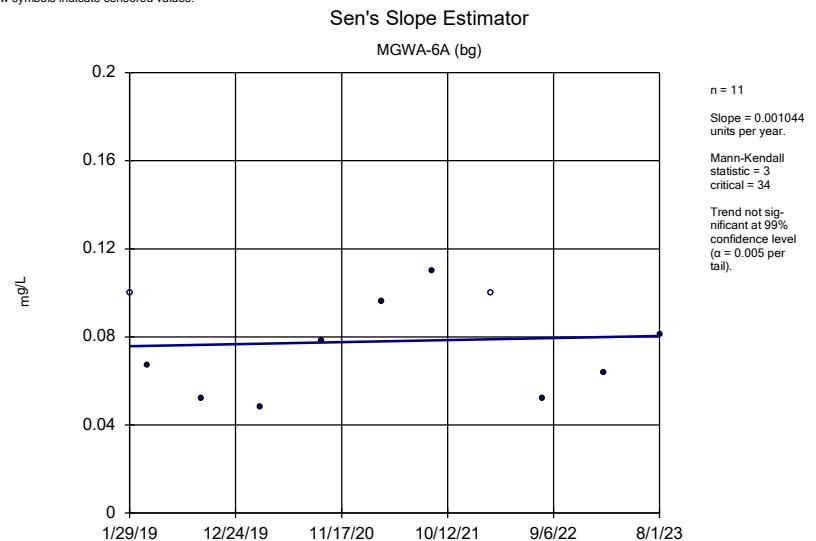
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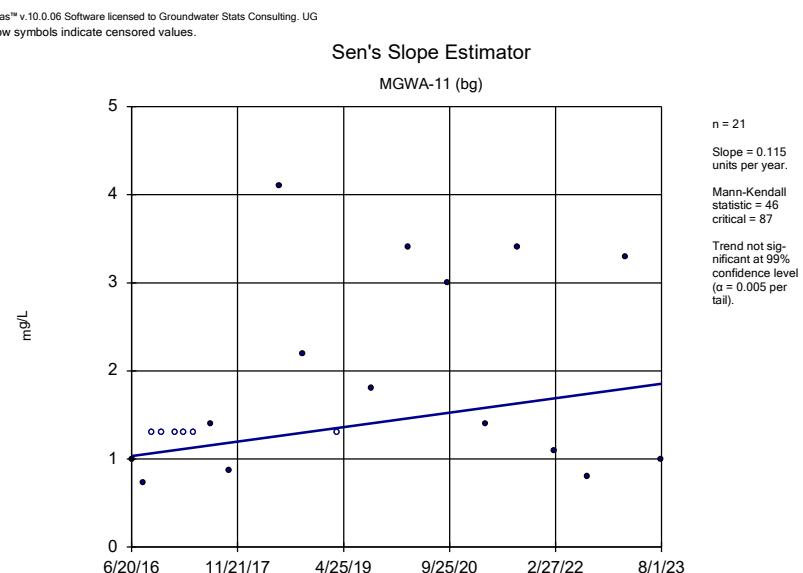
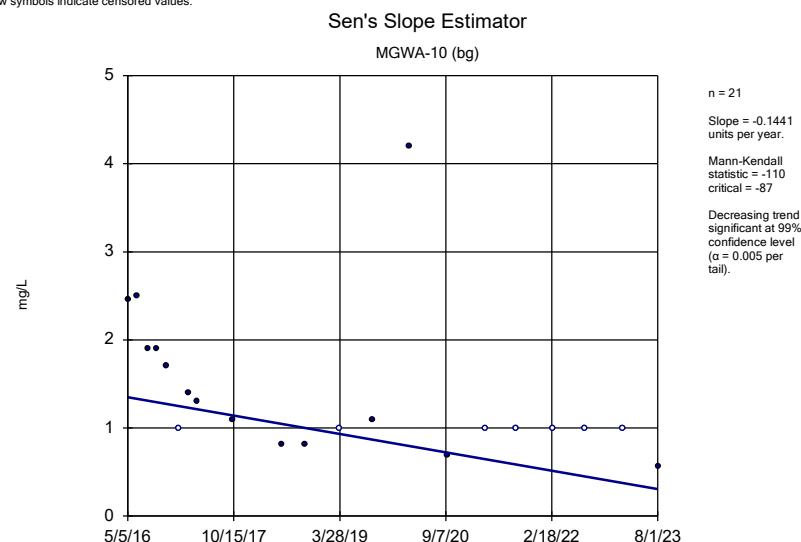
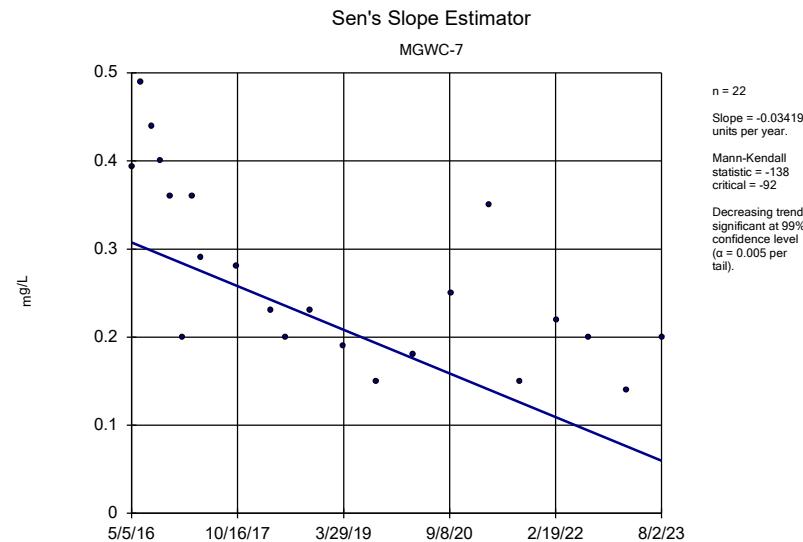
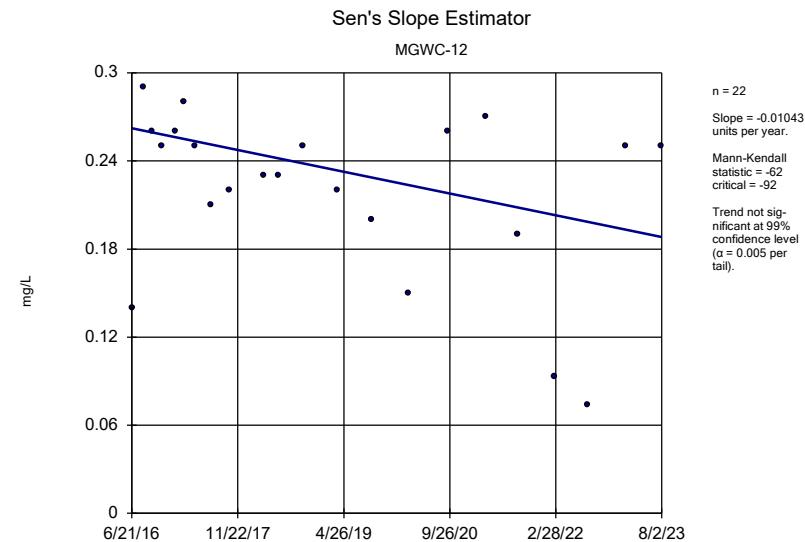
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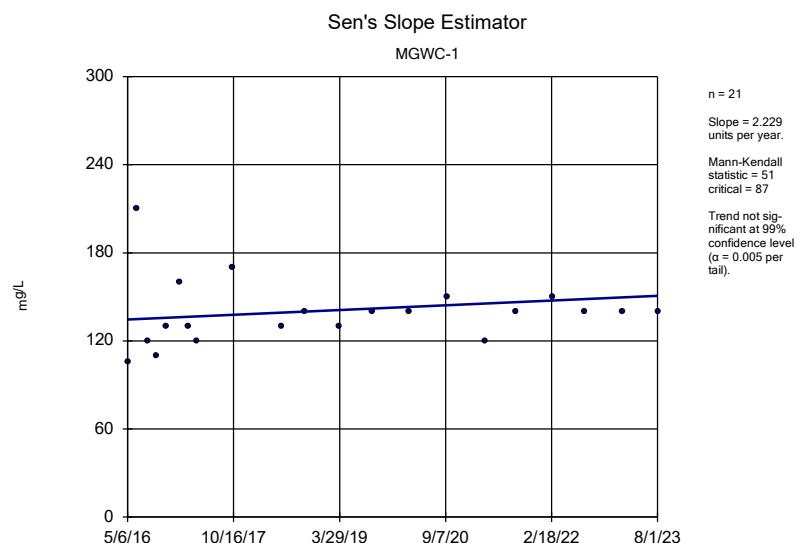
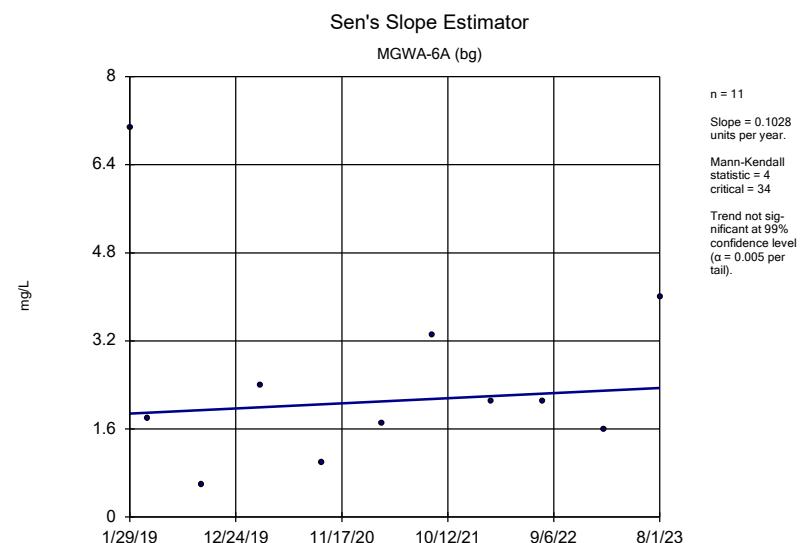
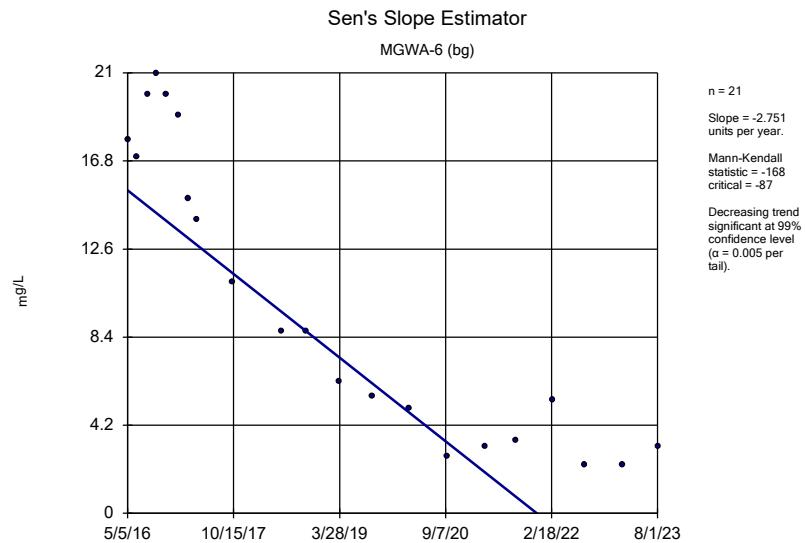
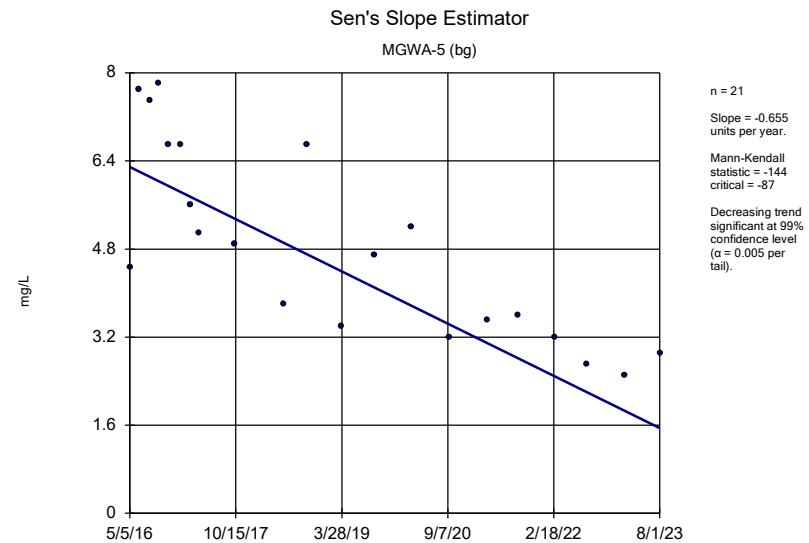


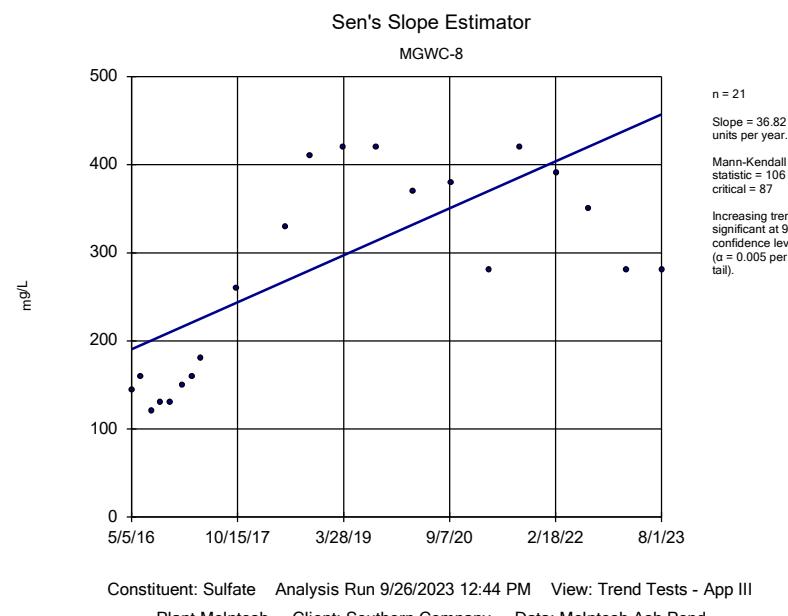
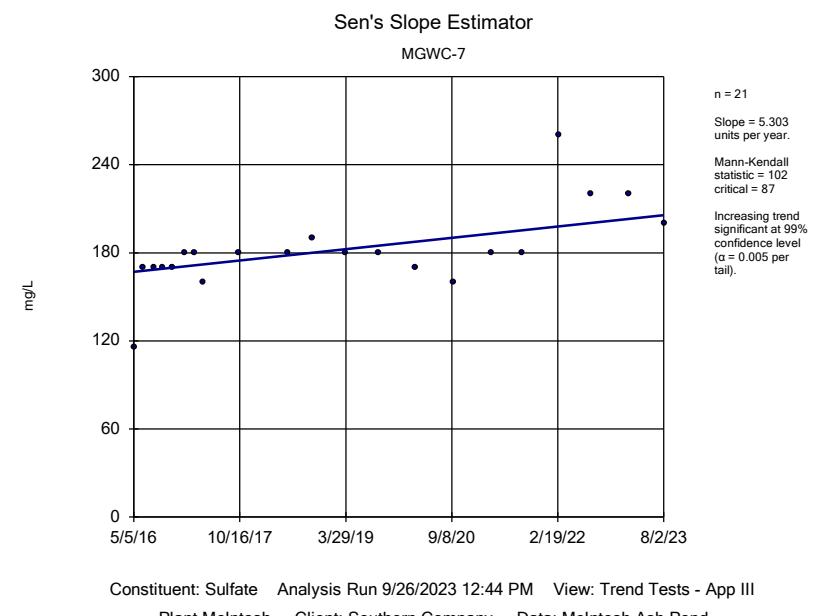
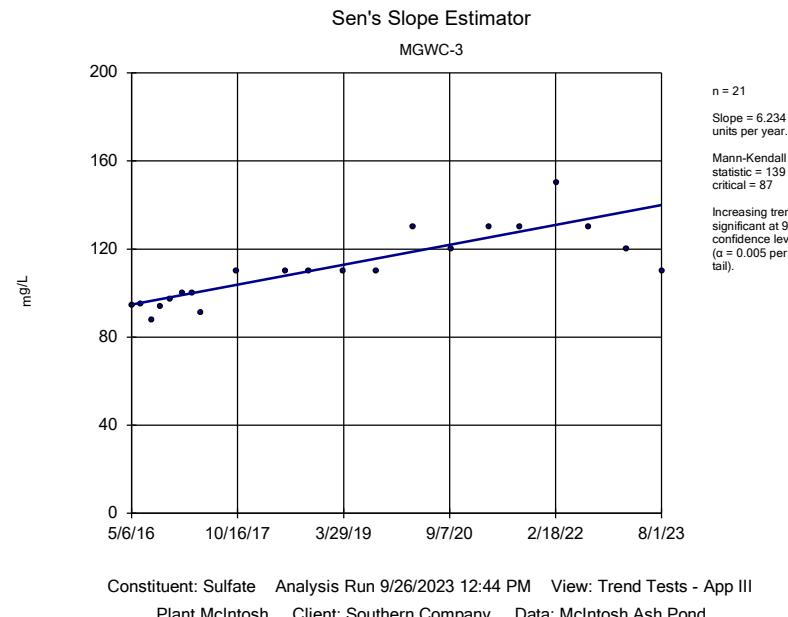
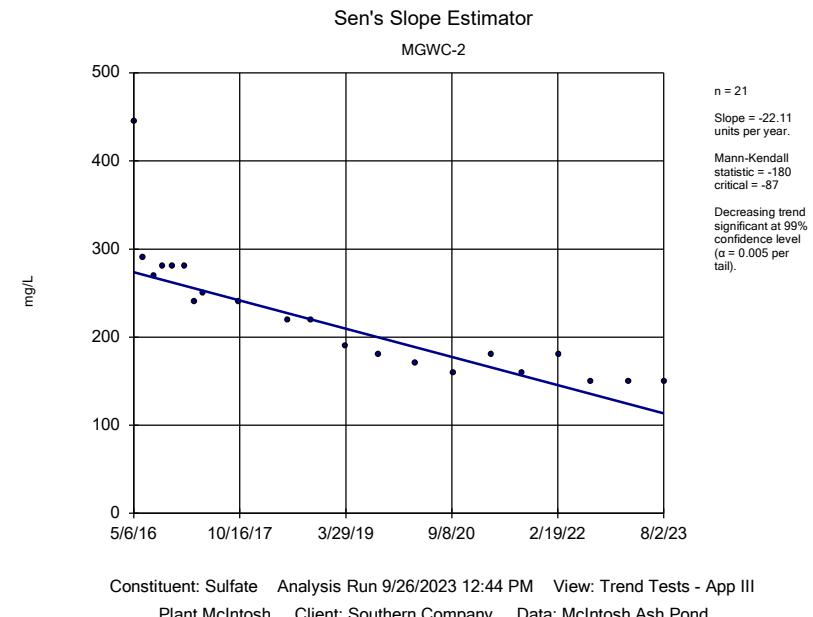
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

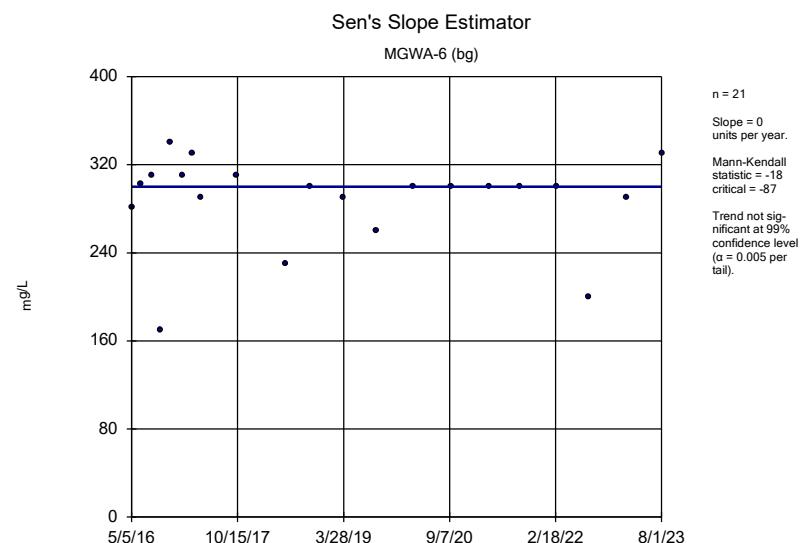
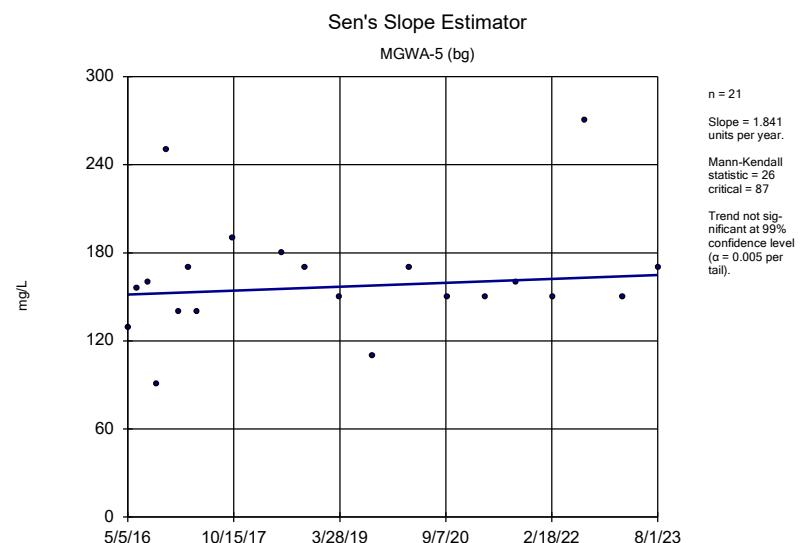
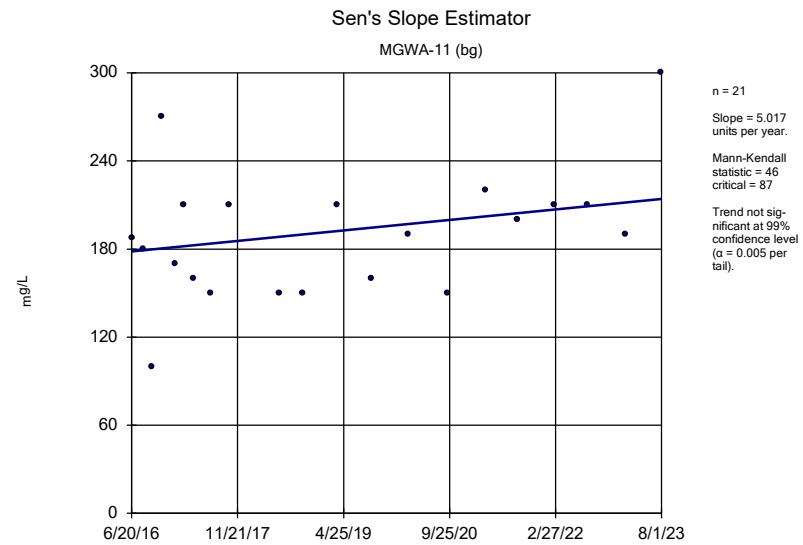
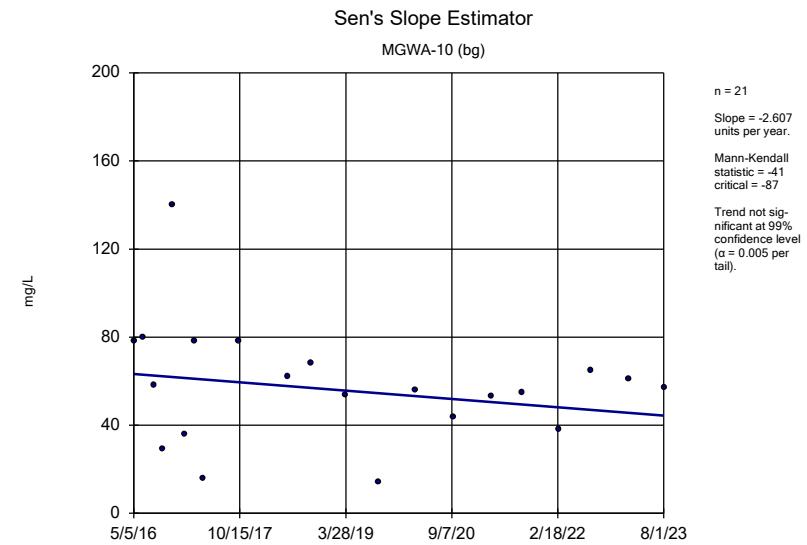


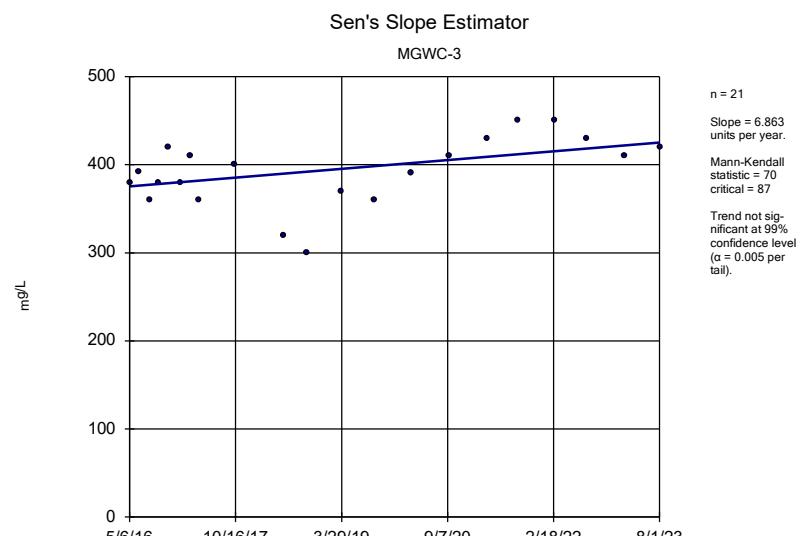
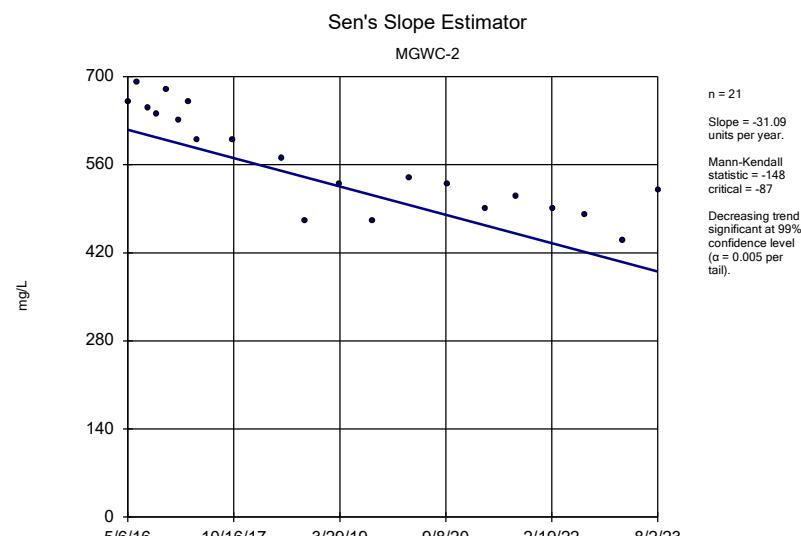
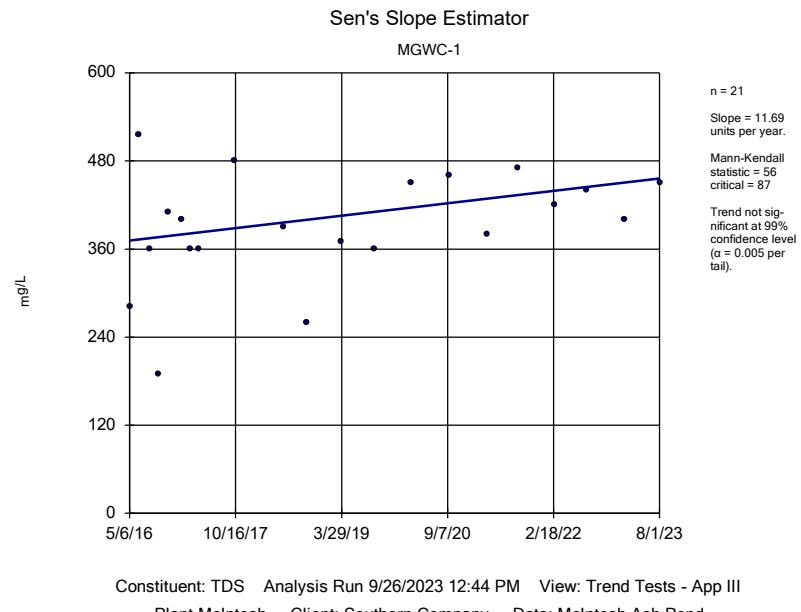
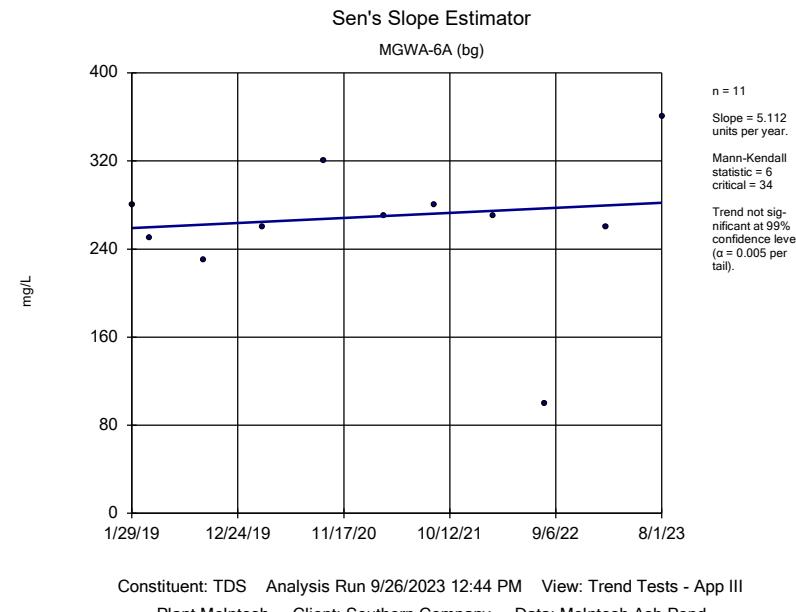
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

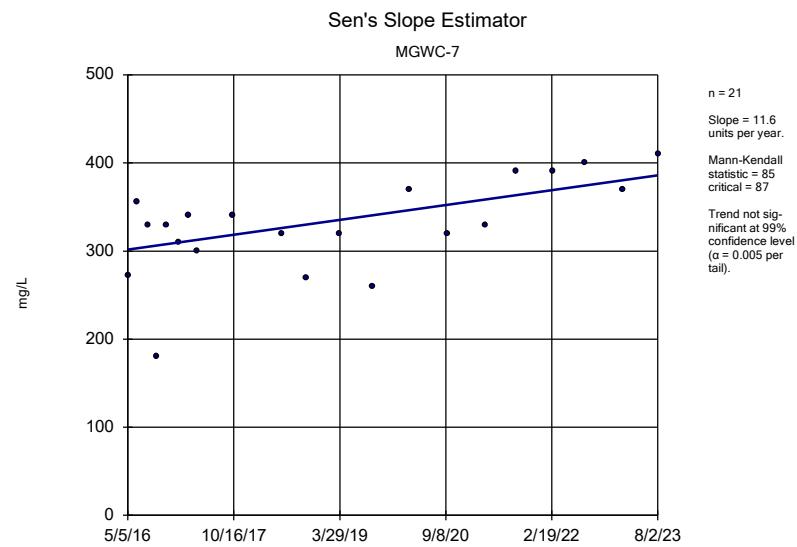




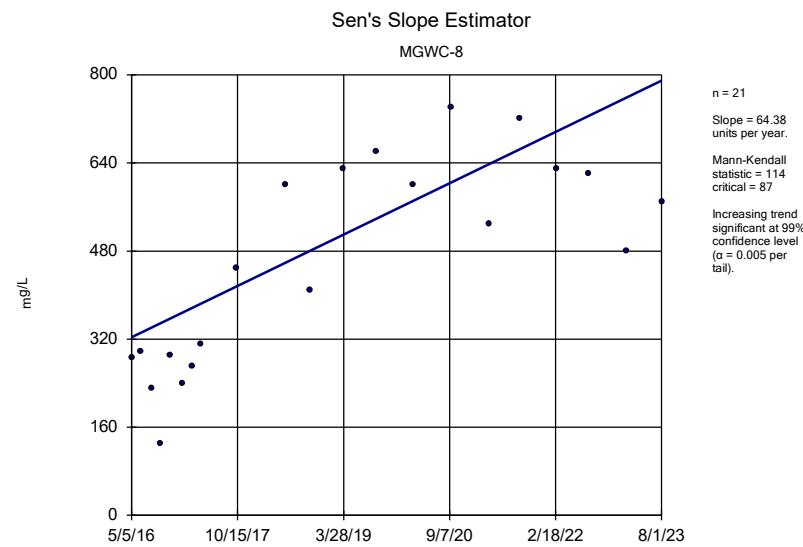








Constituent: TDS Analysis Run 9/26/2023 12:44 PM View: Trend Tests - App III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: TDS Analysis Run 9/26/2023 12:44 PM View: Trend Tests - App III  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:47 PM

| <u>Constituent</u>     | <u>Well</u>         | <u>Slope</u>    | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u>  | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------------|-----------------|--------------|-----------------|-------------|-----------|--------------|------------------|--------------|--------------|---------------|
| Boron (mg/L)           | MGWA-10 (bg)        | 0               | 46           | 87              | No          | 21        | 66.67        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-11 (bg)        | 0               | 7            | 87              | No          | 21        | 57.14        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWA-5 (bg)         | 0               | 0            | 87              | No          | 21        | 80.95        | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWA-6 (bg)</b>  | <b>-0.01744</b> | <b>-146</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>19.05</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWA-6A (bg)        | 0               | -15          | -34             | No          | 11        | 63.64        | n/a              | n/a          | 0.01         | NP            |
| Boron (mg/L)           | MGWC-1              | 0.1222          | 86           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-2</b>       | <b>-0.2577</b>  | <b>-157</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Boron (mg/L)           | MGWC-3              | -0.05072        | -47          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Boron (mg/L)</b>    | <b>MGWC-7</b>       | <b>0.1234</b>   | <b>161</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Boron (mg/L)</b>    | <b>MGWC-8</b>       | <b>0.5334</b>   | <b>94</b>    | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Calcium (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.3721</b>  | <b>-120</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Calcium (mg/L)         | MGWA-11 (bg)        | 0.1578          | 20           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-5 (bg)         | -0.1849         | -41          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-6 (bg)         | 0               | 52           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWA-6A (bg)        | 2.58            | 22           | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| Calcium (mg/L)         | MGWC-3              | 2.033           | 83           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Calcium (mg/L)</b>  | <b>MGWC-8</b>       | <b>12.82</b>    | <b>162</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWA-10 (bg)        | 0               | 15           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| Chloride (mg/L)        | MGWA-11 (bg)        | -0.05994        | -35          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWA-5 (bg)</b>  | <b>-0.1829</b>  | <b>-118</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWA-6 (bg)</b>  | <b>-1.104</b>   | <b>-180</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWA-6A (bg)</b> | <b>-0.3253</b>  | <b>-41</b>   | <b>-34</b>      | <b>Yes</b>  | <b>11</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-1              | 0               | -63          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-2</b>       | <b>-1.414</b>   | <b>-177</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Chloride (mg/L)        | MGWC-3              | 0               | 18           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Chloride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.5069</b>  | <b>-131</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Chloride (mg/L)</b> | <b>MGWC-8</b>       | <b>0.4189</b>   | <b>113</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Fluoride (mg/L)        | MGWA-10 (bg)        | 0               | -32          | -92             | No          | 22        | 68.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-11 (bg)        | -0.003001       | -22          | -92             | No          | 22        | 9.091        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-5 (bg)         | -0.003922       | -64          | -92             | No          | 22        | 18.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6 (bg)         | -0.004687       | -62          | -92             | No          | 22        | 27.27        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWA-6A (bg)        | 0.001044        | 3            | 34              | No          | 11        | 18.18        | n/a              | n/a          | 0.01         | NP            |
| Fluoride (mg/L)        | MGWC-12             | -0.01043        | -62          | -92             | No          | 22        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Fluoride (mg/L)</b> | <b>MGWC-7</b>       | <b>-0.03419</b> | <b>-138</b>  | <b>-92</b>      | <b>Yes</b>  | <b>22</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-10 (bg)</b> | <b>-0.1441</b>  | <b>-110</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>33.33</b> | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-11 (bg)        | 0.115           | 46           | 87              | No          | 21        | 28.57        | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-5 (bg)</b>  | <b>-0.655</b>   | <b>-144</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWA-6 (bg)</b>  | <b>-2.751</b>   | <b>-168</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| Sulfate (mg/L)         | MGWA-6A (bg)        | 0.1028          | 4            | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| Sulfate (mg/L)         | MGWC-1              | 2.229           | 51           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-2</b>       | <b>-22.11</b>   | <b>-180</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-3</b>       | <b>6.234</b>    | <b>139</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-7</b>       | <b>5.303</b>    | <b>102</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| <b>Sulfate (mg/L)</b>  | <b>MGWC-8</b>       | <b>36.82</b>    | <b>106</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWA-10 (bg)        | -2.607          | -41          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-11 (bg)        | 5.017           | 46           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-5 (bg)         | 1.841           | 26           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6 (bg)         | 0               | -18          | -87             | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWA-6A (bg)        | 5.112           | 6            | 34              | No          | 11        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-1              | 11.69           | 56           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-2</b>       | <b>-31.09</b>   | <b>-148</b>  | <b>-87</b>      | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |
| TDS (mg/L)             | MGWC-3              | 6.863           | 70           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| TDS (mg/L)             | MGWC-7              | 11.6            | 85           | 87              | No          | 21        | 0            | n/a              | n/a          | 0.01         | NP            |
| <b>TDS (mg/L)</b>      | <b>MGWC-8</b>       | <b>64.38</b>    | <b>114</b>   | <b>87</b>       | <b>Yes</b>  | <b>21</b> | <b>0</b>     | <b>n/a</b>       | <b>n/a</b>   | <b>0.01</b>  | <b>NP</b>     |

## FIGURE F.

## Upper Tolerance Limits

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/25/2023, 4:16 PM

| <u>Constituent</u>                | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>       |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L)                   | n/a         | 0.002             | n/a         | n/a            | n/a         | 86          | 91.86       | n/a              | 0.01214      | NP Inter(NDs)       |
| Arsenic (mg/L)                    | n/a         | 0.014             | n/a         | n/a            | n/a         | 96          | 36.46       | n/a              | 0.007269     | NP Inter(normality) |
| Barium (mg/L)                     | n/a         | 0.13              | n/a         | n/a            | n/a         | 104         | 0           | n/a              | 0.004822     | NP Inter(normality) |
| Beryllium (mg/L)                  | n/a         | 0.0025            | n/a         | n/a            | n/a         | 94          | 94.68       | n/a              | 0.008054     | NP Inter(NDs)       |
| Cadmium (mg/L)                    | n/a         | 0.0025            | n/a         | n/a            | n/a         | 104         | 99.04       | n/a              | 0.004822     | NP Inter(NDs)       |
| Chromium (mg/L)                   | n/a         | 0.0063            | n/a         | n/a            | n/a         | 94          | 72.34       | n/a              | 0.008054     | NP Inter(NDs)       |
| Cobalt (mg/L)                     | n/a         | 0.0025            | n/a         | n/a            | n/a         | 103         | 72.82       | n/a              | 0.005076     | NP Inter(NDs)       |
| Combined Radium 226 + 228 (pCi/L) | n/a         | 1.234             | n/a         | n/a            | n/a         | 105         | 0           | No               | 0.05         | Inter               |
| Fluoride (mg/L)                   | n/a         | 0.19              | n/a         | n/a            | n/a         | 99          | 29.29       | n/a              | 0.006232     | NP Inter(normality) |
| Lead (mg/L)                       | n/a         | 0.001             | n/a         | n/a            | n/a         | 86          | 94.19       | n/a              | 0.01214      | NP Inter(NDs)       |
| Lithium (mg/L)                    | n/a         | 0.03              | n/a         | n/a            | n/a         | 104         | 30.77       | n/a              | 0.004822     | NP Inter(normality) |
| Mercury (mg/L)                    | n/a         | 0.0002            | n/a         | n/a            | n/a         | 94          | 96.81       | n/a              | 0.008054     | NP Inter(NDs)       |
| Molybdenum (mg/L)                 | n/a         | 0.015             | n/a         | n/a            | n/a         | 94          | 63.83       | n/a              | 0.008054     | NP Inter(NDs)       |
| Selenium (mg/L)                   | n/a         | 0.005             | n/a         | n/a            | n/a         | 74          | 91.89       | n/a              | 0.02247      | NP Inter(NDs)       |
| Thallium (mg/L)                   | n/a         | 0.001             | n/a         | n/a            | n/a         | 94          | 84.04       | n/a              | 0.008054     | NP Inter(NDs)       |

## FIGURE G.

| PLANT MCINTOSH AP 1 GWPS       |       |                    |                  |       |
|--------------------------------|-------|--------------------|------------------|-------|
| Constituent Name               | MCL   | CCR-Rule Specified | Background Limit | GWPS  |
| Antimony, Total (mg/L)         | 0.006 |                    | 0.002            | 0.006 |
| Arsenic, Total (mg/L)          | 0.01  |                    | 0.014            | 0.014 |
| Barium, Total (mg/L)           | 2     |                    | 0.13             | 2     |
| Beryllium, Total (mg/L)        | 0.004 |                    | 0.0025           | 0.004 |
| Cadmium, Total (mg/L)          | 0.005 |                    | 0.0025           | 0.005 |
| Chromium, Total (mg/L)         | 0.1   |                    | 0.0063           | 0.1   |
| Cobalt, Total (mg/L)           | n/a   | 0.006              | 0.0025           | 0.006 |
| Combined Radium, Total (pCi/L) | 5     |                    | 1.23             | 5     |
| Fluoride, Total (mg/L)         | 4     |                    | 0.19             | 4     |
| Lead, Total (mg/L)             | n/a   | 0.015              | 0.001            | 0.015 |
| Lithium, Total (mg/L)          | n/a   | 0.04               | 0.03             | 0.04  |
| Mercury, Total (mg/L)          | 0.002 |                    | 0.0002           | 0.002 |
| Molybdenum, Total (mg/L)       | n/a   | 0.1                | 0.015            | 0.1   |
| Selenium, Total (mg/L)         | 0.05  |                    | 0.005            | 0.05  |
| Thallium, Total (mg/L)         | 0.002 |                    | 0.001            | 0.002 |

\*Grey cell indicates background is higher than MCL or CCR-Rule

\*GWPS = Groundwater Protection Standard

\*MCL = Maximum Contaminant Level

\*CCR = Coal Combustion Residuals

## FIGURE H.

## Confidence Intervals Summary Table - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:06 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Cobalt (mg/L)      | MGWC-7      | 0.009643          | 0.006722          | 0.006             | Yes         | 23       | 0.008183    | 0.002793         | 0           | None           | No               | 0.01         | Param.         |
| Cobalt (mg/L)      | MGWC-8      | 0.01517           | 0.006917          | 0.006             | Yes         | 23       | 0.01104     | 0.007889         | 0           | None           | No               | 0.01         | Param.         |
| Lithium (mg/L)     | MGWC-7      | 0.13              | 0.112             | 0.04              | Yes         | 23       | 0.1227      | 0.01927          | 0           | None           | No               | 0.01         | NP (normality) |

# Confidence Intervals Summary Table - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:05 PM

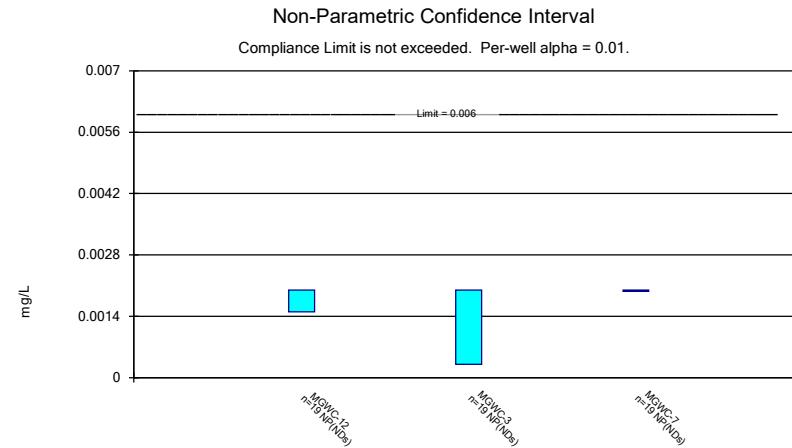
| <u>Constituent</u>                | <u>Well</u>   | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u>     | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|-----------------------------------|---------------|-------------------|-------------------|-------------------|-------------|----------|-----------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Antimony (mg/L)                   | MGWC-12       | 0.002             | 0.0015            | 0.006             | No          | 19       | 0.001889        | 0.0003784        | 89.47       | None           | No               | 0.01         | NP (NDs)       |
| Antimony (mg/L)                   | MGWC-3        | 0.002             | 0.0003            | 0.006             | No          | 19       | 0.001911        | 0.00039          | 94.74       | None           | No               | 0.01         | NP (NDs)       |
| Antimony (mg/L)                   | MGWC-7        | 0.002             | 0.00197           | 0.006             | No          | 19       | 0.00192         | 0.0003415        | 89.47       | None           | No               | 0.01         | NP (NDs)       |
| Arsenic (mg/L)                    | MGWC-1        | 0.002733          | 0.001872          | 0.014             | No          | 23       | 0.002303        | 0.0008228        | 0           | None           | No               | 0.01         | Param.         |
| Arsenic (mg/L)                    | MGWC-12       | 0.001061          | 0.0006636         | 0.014             | No          | 23       | 0.001003        | 0.0003575        | 30.43       | Kaplan-Meier   | No               | 0.01         | Param.         |
| Arsenic (mg/L)                    | MGWC-2        | 0.001             | 0.00068           | 0.014             | No          | 23       | 0.000917        | 0.0001949        | 82.61       | Kaplan-Meier   | No               | 0.01         | NP (NDs)       |
| Arsenic (mg/L)                    | MGWC-3        | 0.0017            | 0.00143           | 0.014             | No          | 23       | 0.001584        | 0.0003356        | 4.348       | None           | No               | 0.01         | NP (normality) |
| Arsenic (mg/L)                    | MGWC-7        | 0.0008039         | 0.0005182         | 0.014             | No          | 23       | 0.0008265       | 0.0002772        | 39.13       | Kaplan-Meier   | No               | 0.01         | Param.         |
| Arsenic (mg/L)                    | MGWC-8        | 0.001             | 0.00098           | 0.014             | No          | 23       | 0.0009035       | 0.0001913        | 65.22       | Kaplan-Meier   | No               | 0.01         | NP (NDs)       |
| Barium (mg/L)                     | MGWC-1        | 0.11              | 0.096             | 2                 | No          | 23       | 0.1067          | 0.01576          | 0           | None           | No               | 0.01         | NP (normality) |
| Barium (mg/L)                     | MGWC-12       | 0.06448           | 0.05038           | 2                 | No          | 23       | 0.05743         | 0.01347          | 0           | None           | No               | 0.01         | Param.         |
| Barium (mg/L)                     | MGWC-2        | 0.0534            | 0.04759           | 2                 | No          | 23       | 0.0505          | 0.005561         | 0           | None           | No               | 0.01         | Param.         |
| Barium (mg/L)                     | MGWC-3        | 0.1556            | 0.1421            | 2                 | No          | 23       | 0.1488          | 0.01295          | 0           | None           | No               | 0.01         | Param.         |
| Barium (mg/L)                     | MGWC-7        | 0.015             | 0.01              | 2                 | No          | 23       | 0.01356         | 0.006621         | 4.348       | None           | No               | 0.01         | NP (normality) |
| Barium (mg/L)                     | MGWC-8        | 0.04133           | 0.0341            | 2                 | No          | 23       | 0.03793         | 0.00727          | 0           | None           | sqrt(x)          | 0.01         | Param.         |
| Beryllium (mg/L)                  | MGWC-1        | 0.0025            | 0.00018           | 0.004             | No          | 21       | 0.00239         | 0.0005063        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Beryllium (mg/L)                  | MGWC-3        | 0.0025            | 0.00031           | 0.004             | No          | 21       | 0.002396        | 0.0004779        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Beryllium (mg/L)                  | MGWC-8        | 0.001302          | 0.000712          | 0.004             | No          | 21       | 0.001007        | 0.0005351        | 14.29       | None           | No               | 0.01         | Param.         |
| Cadmium (mg/L)                    | MGWC-1        | 0.0025            | 0.0005            | 0.005             | No          | 23       | 0.002           | 0.0009726        | 78.26       | None           | No               | 0.01         | NP (NDs)       |
| Cadmium (mg/L)                    | MGWC-2        | 0.002854          | 0.001149          | 0.005             | No          | 23       | 0.002239        | 0.001888         | 0           | None           | sqrt(x)          | 0.01         | Param.         |
| Cadmium (mg/L)                    | MGWC-7        | 0.0025            | 0.00041           | 0.005             | No          | 23       | 0.002215        | 0.0007523        | 86.96       | None           | No               | 0.01         | NP (NDs)       |
| Cadmium (mg/L)                    | MGWC-8        | 0.001482          | 0.000647          | 0.005             | No          | 23       | 0.001597        | 0.001153         | 26.09       | Kaplan-Meier   | sqrt(x)          | 0.01         | Param.         |
| Chromium (mg/L)                   | MGWC-1        | 0.0036            | 0.0014            | 0.1               | No          | 21       | 0.002048        | 0.000379         | 90.48       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-12       | 0.0032            | 0.0012            | 0.1               | No          | 21       | 0.003305        | 0.005896         | 85.71       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-2        | 0.0033            | 0.002             | 0.1               | No          | 21       | 0.002062        | 0.0002837        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-3        | 0.003             | 0.002             | 0.1               | No          | 21       | 0.002048        | 0.0002182        | 95.24       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-7        | 0.0034            | 0.0015            | 0.1               | No          | 21       | 0.00201         | 0.0003673        | 85.71       | None           | No               | 0.01         | NP (NDs)       |
| Chromium (mg/L)                   | MGWC-8        | 0.0031            | 0.0013            | 0.1               | No          | 21       | 0.002019        | 0.0002909        | 90.48       | None           | No               | 0.01         | NP (NDs)       |
| Cobalt (mg/L)                     | MGWC-1        | 0.0025            | 0.00047           | 0.006             | No          | 23       | 0.001788        | 0.001014         | 65.22       | None           | No               | 0.01         | NP (NDs)       |
| Cobalt (mg/L)                     | MGWC-12       | 0.0025            | 0.0015            | 0.006             | No          | 23       | 0.002355        | 0.0005218        | 91.3        | None           | No               | 0.01         | NP (NDs)       |
| Cobalt (mg/L)                     | MGWC-2        | 0.003172          | 0.002257          | 0.006             | No          | 23       | 0.002715        | 0.0008745        | 0           | None           | No               | 0.01         | Param.         |
| Cobalt (mg/L)                     | MGWC-3        | 0.00068           | 0.00051           | 0.006             | No          | 23       | 0.0007574       | 0.0004694        | 13.04       | None           | No               | 0.01         | NP (normality) |
| Cobalt (mg/L)                     | <b>MGWC-7</b> | <b>0.009643</b>   | <b>0.006722</b>   | <b>0.006</b>      | Yes         | 23       | <b>0.008183</b> | <b>0.002793</b>  | <b>0</b>    | <b>None</b>    | No               | <b>0.01</b>  | Param.         |
| Cobalt (mg/L)                     | <b>MGWC-8</b> | <b>0.01517</b>    | <b>0.006917</b>   | <b>0.006</b>      | Yes         | 23       | <b>0.01104</b>  | <b>0.007889</b>  | <b>0</b>    | <b>None</b>    | No               | <b>0.01</b>  | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-1        | 1.706             | 1.315             | 5                 | No          | 24       | 1.51            | 0.3825           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-12       | 0.7489            | 0.4601            | 5                 | No          | 23       | 0.6045          | 0.2761           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-2        | 0.7573            | 0.4849            | 5                 | No          | 23       | 0.6211          | 0.2604           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-3        | 1.766             | 1.39              | 5                 | No          | 24       | 1.578           | 0.3681           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-7        | 1.335             | 0.9723            | 5                 | No          | 23       | 1.154           | 0.3472           | 0           | None           | No               | 0.01         | Param.         |
| Combined Radium 226 + 228 (pCi/L) | MGWC-8        | 1.917             | 1.354             | 5                 | No          | 23       | 1.636           | 0.5383           | 0           | None           | No               | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-1        | 0.226             | 0.1411            | 4                 | No          | 22       | 0.1835          | 0.07909          | 0           | None           | No               | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-12       | 0.251             | 0.1993            | 4                 | No          | 22       | 0.2194          | 0.058            | 0           | None           | x^2              | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-2        | 0.2               | 0.075             | 4                 | No          | 22       | 0.1266          | 0.05876          | 31.82       | None           | No               | 0.01         | NP (normality) |
| Fluoride (mg/L)                   | MGWC-3        | 0.2               | 0.082             | 4                 | No          | 22       | 0.125           | 0.05834          | 27.27       | None           | No               | 0.01         | NP (normality) |
| Fluoride (mg/L)                   | MGWC-7        | 0.3231            | 0.2136            | 4                 | No          | 22       | 0.2684          | 0.102            | 0           | None           | No               | 0.01         | Param.         |
| Fluoride (mg/L)                   | MGWC-8        | 0.1075            | 0.07238           | 4                 | No          | 22       | 0.08995         | 0.03274          | 13.64       | None           | No               | 0.01         | Param.         |
| Lead (mg/L)                       | MGWC-12       | 0.001             | 0.0001            | 0.015             | No          | 19       | 0.0009526       | 0.0002065        | 94.74       | None           | No               | 0.01         | NP (NDs)       |
| Lead (mg/L)                       | MGWC-7        | 0.001             | 0.0003            | 0.015             | No          | 19       | 0.0008789       | 0.0002879        | 84.21       | None           | No               | 0.01         | NP (NDs)       |
| Lead (mg/L)                       | MGWC-8        | 0.001             | 0.00022           | 0.015             | No          | 19       | 0.0009589       | 0.0001789        | 94.74       | None           | No               | 0.01         | NP (NDs)       |
| Lithium (mg/L)                    | MGWC-1        | 0.01212           | 0.01011           | 0.04              | No          | 23       | 0.01112         | 0.001925         | 4.348       | None           | No               | 0.01         | Param.         |
| Lithium (mg/L)                    | MGWC-12       | 0.022             | 0.01664           | 0.04              | No          | 23       | 0.01932         | 0.00512          | 0           | None           | No               | 0.01         | Param.         |
| Lithium (mg/L)                    | MGWC-2        | 0.0066            | 0.0051            | 0.04              | No          | 23       | 0.006533        | 0.004171         | 4.348       | None           | No               | 0.01         | NP (normality) |
| Lithium (mg/L)                    | MGWC-3        | 0.01334           | 0.01146           | 0.04              | No          | 23       | 0.0124          | 0.001792         | 0           | None           | No               | 0.01         | Param.         |
| <b>Lithium (mg/L)</b>             | <b>MGWC-7</b> | <b>0.13</b>       | <b>0.112</b>      | <b>0.04</b>       | Yes         | 23       | <b>0.1227</b>   | <b>0.01927</b>   | <b>0</b>    | <b>None</b>    | No               | <b>0.01</b>  | NP (normality) |
| Lithium (mg/L)                    | MGWC-8        | 0.03648           | 0.02458           | 0.04              | No          | 23       | 0.03053         | 0.01138          | 0           | None           | No               | 0.01         | Param.         |

# Confidence Intervals Summary Table - All Results

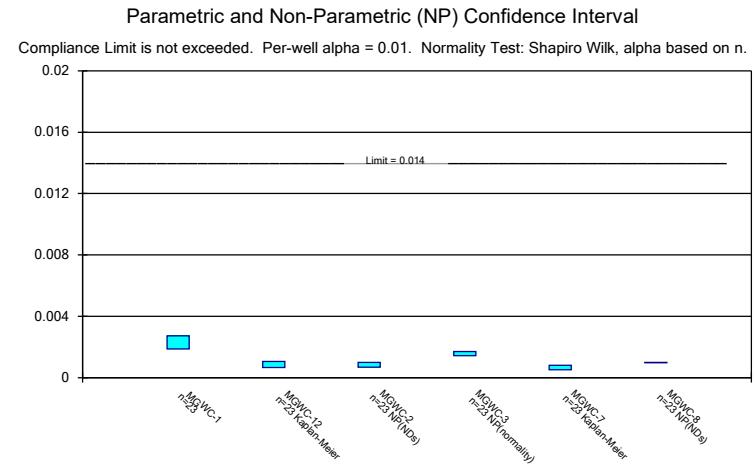
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:05 PM

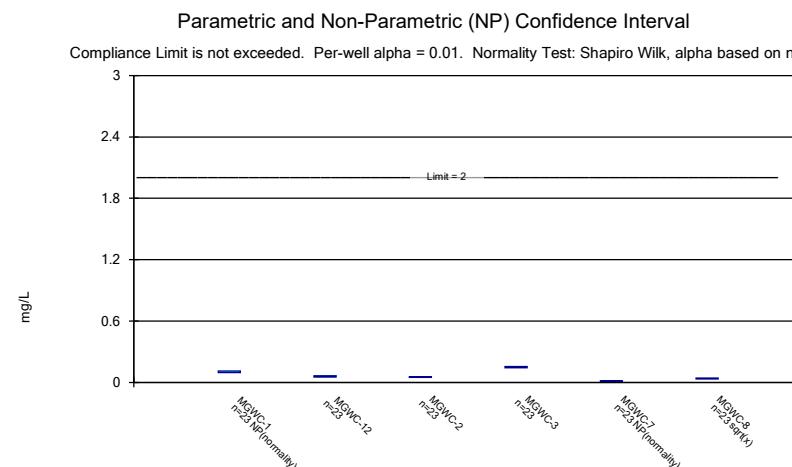
| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u>     | <u>Transform</u> | <u>Alpha</u> | <u>Method</u>  |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|--------------------|------------------|--------------|----------------|
| Mercury (mg/L)     | MGWC-12     | 0.0002            | 0.000086          | 0.015             | No          | 21       | 0.0001886   | 0.00003614       | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-2      | 0.0002            | 0.0001            | 0.015             | No          | 21       | 0.0001894   | 0.00003357       | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-3      | 0.0002            | 0.00007           | 0.015             | No          | 21       | 0.0001938   | 0.00002837       | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-7      | 0.0002            | 0.00008           | 0.015             | No          | 21       | 0.0001943   | 0.00002619       | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Mercury (mg/L)     | MGWC-8      | 0.00021           | 0.00014           | 0.015             | No          | 22       | 0.0004062   | 0.0008409        | 36.36       | None               | No               | 0.01         | NP (normality) |
| Molybdenum (mg/L)  | MGWC-1      | 0.0029            | 0.0012            | 0.1               | No          | 21       | 0.01549     | 0.02958          | 19.05       | None               | No               | 0.01         | NP (normality) |
| Molybdenum (mg/L)  | MGWC-12     | 0.015             | 0.002             | 0.1               | No          | 21       | 0.01112     | 0.006291         | 71.43       | None               | No               | 0.01         | NP (NDs)       |
| Molybdenum (mg/L)  | MGWC-7      | 0.015             | 0.00351           | 0.1               | No          | 21       | 0.01445     | 0.002507         | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Molybdenum (mg/L)  | MGWC-8      | 0.015             | 0.0037            | 0.1               | No          | 21       | 0.01446     | 0.002466         | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-1      | 0.005             | 0.0005            | 0.05              | No          | 17       | 0.004735    | 0.001091         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-12     | 0.005             | 0.00027           | 0.05              | No          | 17       | 0.004722    | 0.001147         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-2      | 0.005             | 0.00045           | 0.05              | No          | 17       | 0.004732    | 0.001104         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-3      | 0.005             | 0.00044           | 0.05              | No          | 17       | 0.004732    | 0.001106         | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-7      | 0.005             | 0.00026           | 0.05              | No          | 17       | 0.004721    | 0.00115          | 94.12       | None               | No               | 0.01         | NP (NDs)       |
| Selenium (mg/L)    | MGWC-8      | 0.005             | 0.0024            | 0.05              | No          | 17       | 0.004022    | 0.001871         | 76.47       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-1      | 0.001             | 0.00032           | 0.002             | No          | 21       | 0.0008002   | 0.0003686        | 76.19       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-12     | 0.001             | 0.00027           | 0.002             | No          | 21       | 0.0009248   | 0.0002384        | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-2      | 0.001             | 0.00021           | 0.002             | No          | 21       | 0.0009624   | 0.0001724        | 95.24       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-3      | 0.001             | 0.00037           | 0.002             | No          | 21       | 0.00093     | 0.0002236        | 90.48       | None               | No               | 0.01         | NP (NDs)       |
| Thallium (mg/L)    | MGWC-8      | 0.0002416         | 0.0001397         | 0.002             | No          | 21       | 0.0004852   | 0.0003818        | 33.33       | Kaplan-Meier In(x) | 0.01             | Param.       |                |



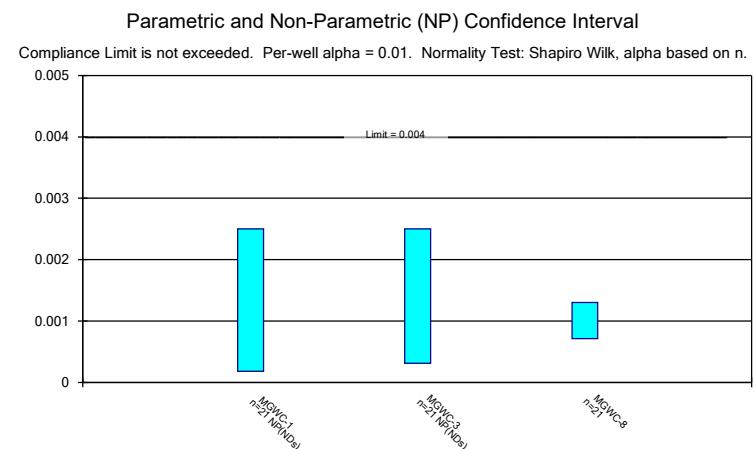
Constituent: Antimony Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Arsenic Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



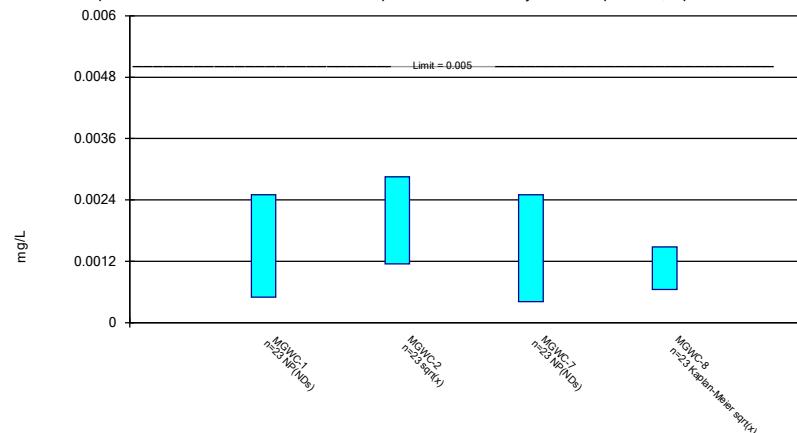
Constituent: Barium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Beryllium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

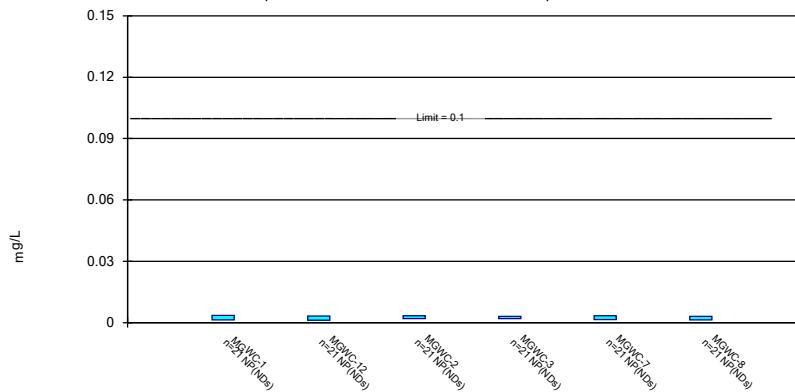
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Non-Parametric Confidence Interval

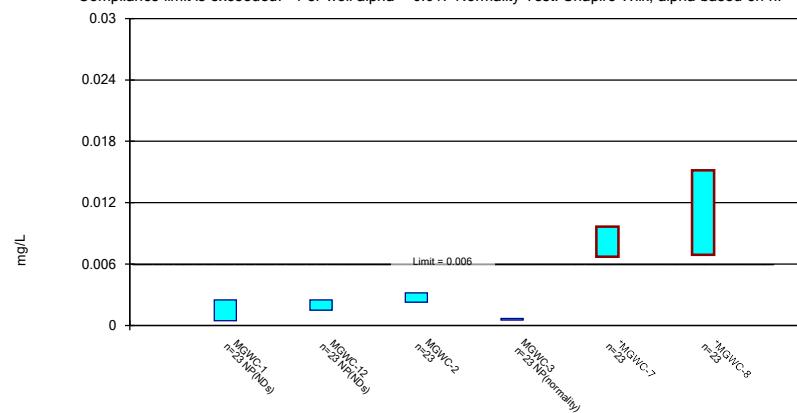
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

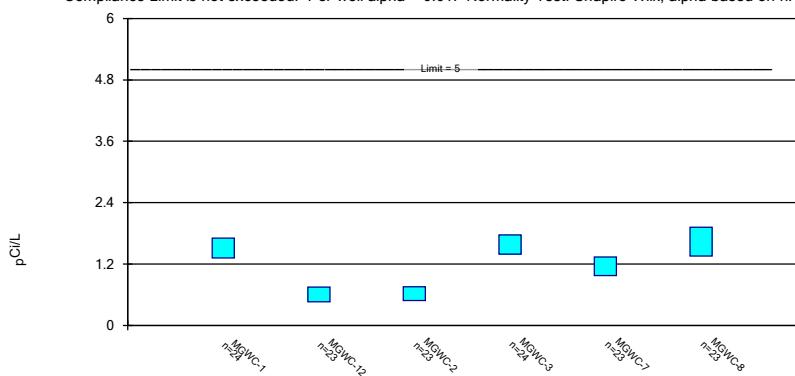
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric Confidence Interval

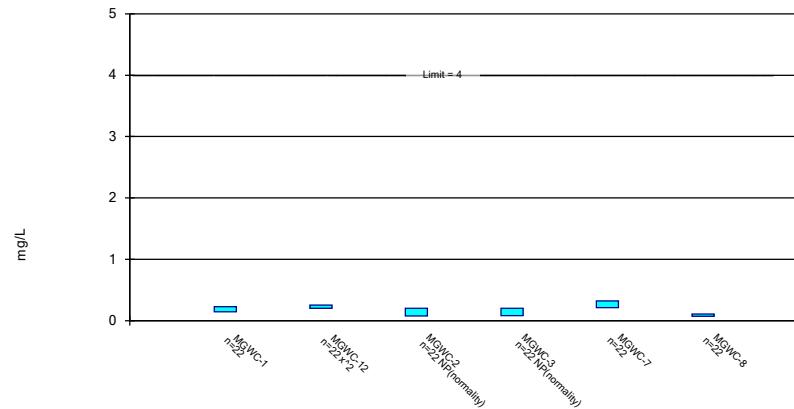
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

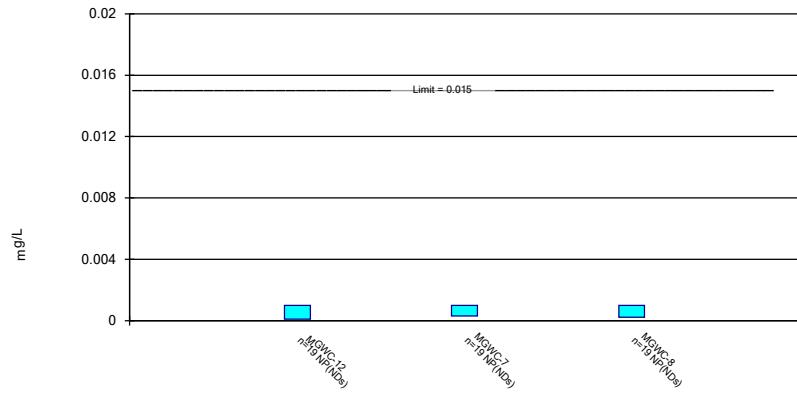
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Non-Parametric Confidence Interval

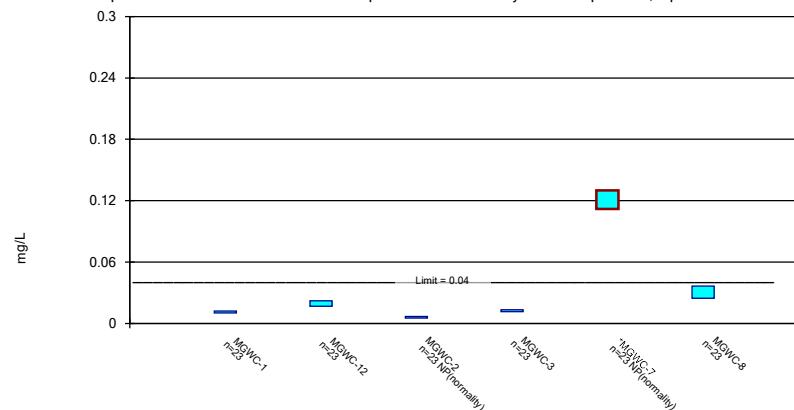
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

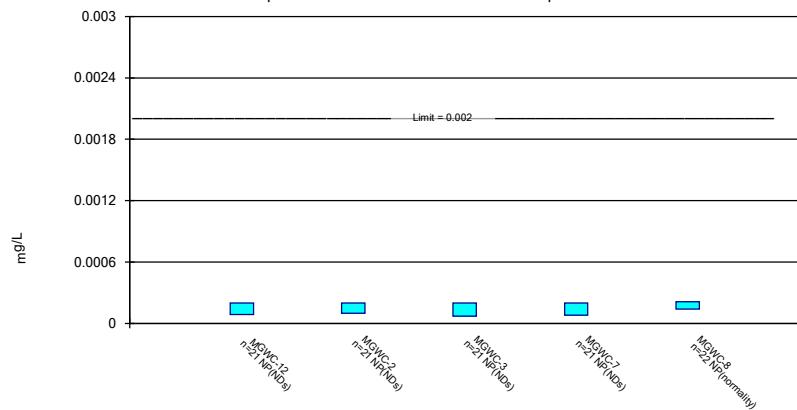
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



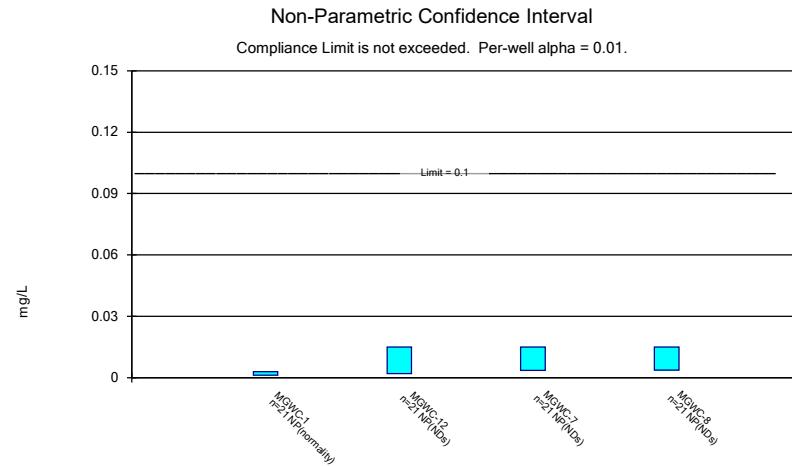
Constituent: Lithium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

### Non-Parametric Confidence Interval

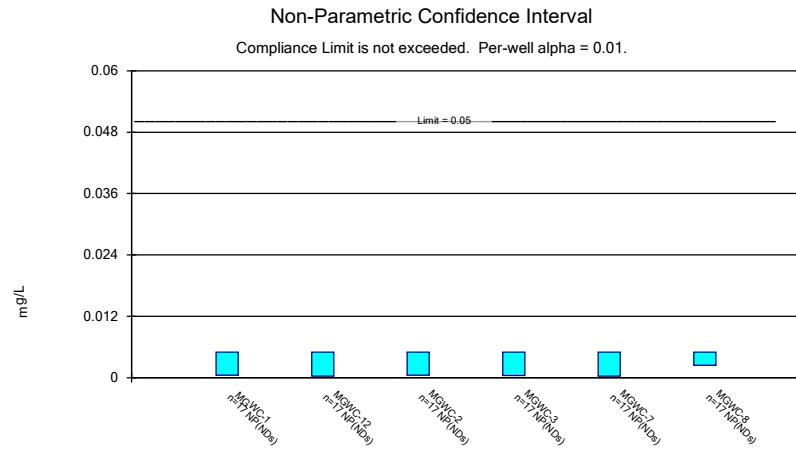
Compliance Limit is not exceeded. Per-well alpha = 0.01.



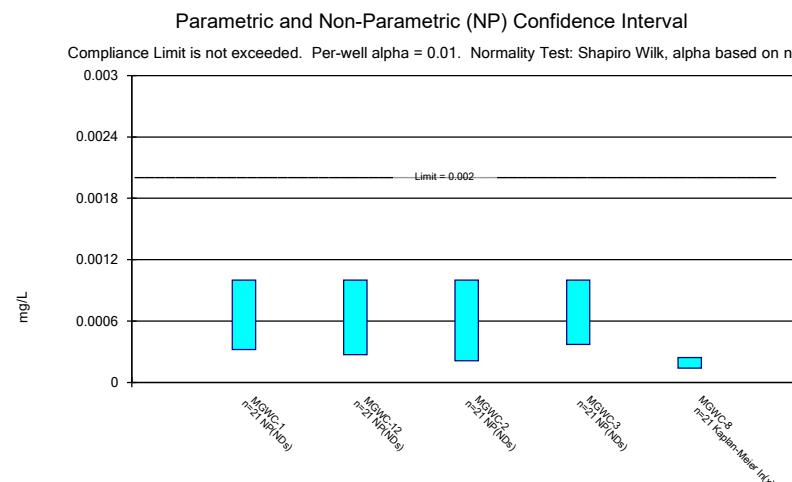
Constituent: Mercury Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Molybdenum Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Selenium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Thallium Analysis Run 9/25/2023 4:23 PM View: Confidence Intervals  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-3     | MGWC-7      |
|------------|------------|------------|-------------|
| 5/5/2016   |            |            | 0.00197 (J) |
| 5/6/2016   |            | <0.002     |             |
| 6/21/2016  | 0.0004 (J) | 0.0003 (J) | <0.002      |
| 8/15/2016  |            |            | <0.002      |
| 8/16/2016  | <0.002     | <0.002     |             |
| 9/28/2016  |            |            | <0.002      |
| 9/29/2016  | <0.002     | <0.002     |             |
| 11/16/2016 | <0.002     | <0.002     | <0.002      |
| 1/17/2017  |            | <0.002     | <0.002      |
| 1/18/2017  | <0.002     |            |             |
| 3/2/2017   | <0.002     | <0.002     | <0.002      |
| 4/18/2017  |            | <0.002     | <0.002      |
| 4/25/2017  | <0.002     |            |             |
| 7/13/2017  | <0.002     |            |             |
| 3/29/2018  | <0.002     |            | <0.002      |
| 3/30/2018  |            | <0.002     |             |
| 1/29/2019  | <0.002     | <0.002     | <0.002      |
| 1/28/2020  | <0.002     |            | <0.002      |
| 1/29/2020  |            | <0.002     |             |
| 3/10/2020  | <0.002     | <0.002     | <0.002      |
| 9/16/2020  | <0.002     |            |             |
| 9/17/2020  |            | <0.002     | <0.002      |
| 3/24/2021  | <0.002     | <0.002     | <0.002      |
| 8/24/2021  |            | <0.002     |             |
| 8/25/2021  | <0.002     |            | <0.002      |
| 2/22/2022  | <0.002     |            |             |
| 2/23/2022  |            | <0.002     | <0.002      |
| 8/2/2022   | 0.0015 (J) |            |             |
| 8/3/2022   |            | <0.002     | <0.002      |
| 2/7/2023   | <0.002     | <0.002     |             |
| 2/8/2023   |            |            | 0.00051 (J) |
| 8/1/2023   |            | <0.002     |             |
| 8/2/2023   | <0.002     |            | <0.002      |
| Mean       | 0.001889   | 0.001911   | 0.00192     |
| Std. Dev.  | 0.0003784  | 0.00039    | 0.0003415   |
| Upper Lim. | 0.002      | 0.002      | 0.002       |
| Lower Lim. | 0.0015     | 0.0003     | 0.00197     |

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             |             | 0.00143 (J) | <0.001      |
| 5/6/2016   | 0.00299 (J) |             | <0.001      | 0.00154 (J) |             |             |
| 6/21/2016  | 0.0047 (J)  | 0.0015 (J)  | <0.001      | 0.0016 (J)  | 0.0009 (J)  | <0.001      |
| 8/15/2016  |             |             |             |             | 0.0012 (J)  | <0.001      |
| 8/16/2016  | 0.003       | 0.00082 (J) | <0.001      | 0.0017      |             |             |
| 9/28/2016  | 0.0036      |             |             |             | 0.00084 (J) | <0.001      |
| 9/29/2016  |             | 0.0019      | <0.001      | 0.0013      |             |             |
| 11/16/2016 | 0.003       | 0.0017      | 0.00068 (J) | 0.0014      | <0.001      | <0.001      |
| 1/17/2017  |             |             |             | 0.00056 (J) | <0.001      | <0.001      |
| 1/18/2017  |             | 0.00096 (J) | <0.001      |             |             |             |
| 1/19/2017  | 0.0024      |             |             |             |             |             |
| 3/2/2017   | 0.0027      | 0.00082 (J) | 0.00065 (J) | 0.0018      | 0.0009 (J)  | <0.001      |
| 4/18/2017  | 0.0024      |             |             | 0.0018      | 0.0005 (J)  | 0.00059 (J) |
| 4/19/2017  |             |             | <0.001      |             |             |             |
| 4/25/2017  |             | <0.001      |             |             |             |             |
| 7/13/2017  |             | 0.00047 (J) |             |             |             |             |
| 3/29/2018  | 0.0023      | 0.00053 (J) |             |             | 0.00066 (J) |             |
| 3/30/2018  |             |             | <0.001      | 0.0017      |             | <0.001      |
| 6/12/2018  |             | 0.00063 (J) |             |             |             |             |
| 6/13/2018  | 0.0021      |             | <0.001      | 0.0015      | <0.001      | <0.001      |
| 10/10/2018 | 0.0024      | 0.00098 (J) | <0.001      | 0.0016      | <0.001      | <0.001      |
| 1/29/2019  | 0.00255     | <0.001      | <0.001      | 0.00143     | <0.001      | <0.001      |
| 3/26/2019  | 0.002       | 0.00079 (J) | <0.001      | 0.0012 (J)  | <0.001      | <0.001      |
| 9/10/2019  | 0.0018      | 0.0011      | 0.00036 (J) | 0.0017      | 0.00074 (J) | 0.00056 (J) |
| 1/28/2020  |             | 0.00051 (J) |             |             | 0.00046 (J) |             |
| 1/29/2020  | 0.0021      |             | 0.0004 (J)  | 0.0017      |             | 0.00047 (J) |
| 3/10/2020  | 0.0019      | <0.001      | <0.001      | <0.005      | <0.001      | <0.001      |
| 9/16/2020  |             | <0.001      | <0.001      |             |             |             |
| 9/17/2020  | 0.002       |             |             | 0.0015      | 0.00045 (J) | <0.001      |
| 3/24/2021  | 0.0024      | <0.001      | <0.001      | 0.0018      | 0.00046 (J) | 0.00099 (J) |
| 8/24/2021  |             |             | <0.001      | 0.0014      |             |             |
| 8/25/2021  | 0.00092 (J) | <0.001      |             |             | 0.00055 (J) | <0.001      |
| 2/22/2022  | 0.0014      | 0.00089 (J) |             |             |             |             |
| 2/23/2022  |             |             | <0.001      | 0.0016      | 0.0004 (J)  | 0.00044 (J) |
| 8/2/2022   |             | 0.0015      |             |             |             |             |
| 8/3/2022   | 0.0015      |             |             | 0.0016      | 0.00052 (J) |             |
| 8/4/2022   |             |             | <0.001      |             |             | 0.00075 (J) |
| 2/7/2023   |             | 0.00098 (J) |             | 0.0018      |             |             |
| 2/8/2023   | 0.0016      |             | <0.001      |             | <0.001      | 0.001       |
| 8/1/2023   | 0.0012      |             |             | 0.0017      |             | 0.00098 (J) |
| 8/2/2023   |             | <0.001      | <0.001      |             | <0.001      |             |
| Mean       | 0.002303    | 0.001003    | 0.000917    | 0.001584    | 0.0008265   | 0.0009035   |
| Std. Dev.  | 0.0008228   | 0.0003575   | 0.0001949   | 0.0003356   | 0.0002772   | 0.0001913   |
| Upper Lim. | 0.002733    | 0.001061    | 0.001       | 0.0017      | 0.0008039   | 0.001       |
| Lower Lim. | 0.001872    | 0.0006636   | 0.00068     | 0.00143     | 0.0005182   | 0.00098     |

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1  | MGWC-12 | MGWC-2   | MGWC-3  | MGWC-7     | MGWC-8  |
|------------|---------|---------|----------|---------|------------|---------|
| 5/5/2016   |         |         |          |         | 0.039      | 0.0364  |
| 5/6/2016   | 0.11    |         | 0.0605   | 0.151   |            |         |
| 6/21/2016  | 0.165   | 0.0439  | 0.0613   | 0.174   | 0.0152     | 0.0386  |
| 8/15/2016  |         |         |          |         | 0.015      | 0.03    |
| 8/16/2016  | 0.094   | 0.041   | 0.052    | 0.13    |            |         |
| 9/28/2016  | 0.1     |         |          |         | 0.014      | 0.034   |
| 9/29/2016  |         | 0.052   | 0.053    | 0.14    |            |         |
| 11/16/2016 | 0.096   | 0.044   | 0.056    | 0.14    | 0.013      | 0.034   |
| 1/17/2017  |         |         |          | 0.16    | 0.014      | 0.038   |
| 1/18/2017  |         | 0.056   | 0.06     |         |            |         |
| 1/19/2017  | 0.12    |         |          |         |            |         |
| 3/2/2017   | 0.097   | 0.04    | 0.056    | 0.15    | 0.013      | 0.037   |
| 4/18/2017  | 0.092   |         |          | 0.14    | 0.011      | 0.04    |
| 4/19/2017  |         |         | 0.051    |         |            |         |
| 4/25/2017  |         | 0.042   |          |         |            |         |
| 7/13/2017  |         | 0.043   |          |         |            |         |
| 3/29/2018  | 0.095   | 0.061   |          |         | 0.01       |         |
| 3/30/2018  |         |         | 0.049    | 0.13    |            | 0.041   |
| 6/12/2018  |         | 0.063   |          |         |            |         |
| 6/13/2018  | 0.096   |         | 0.05     | 0.14    | 0.0098     | 0.038   |
| 10/10/2018 | 0.095   | 0.071   | 0.046    | 0.13    | 0.011      | 0.035   |
| 1/29/2019  | 0.107   | 0.06    | 0.0496   | 0.138   | <0.0025    | 0.0344  |
| 3/26/2019  | 0.096   | 0.06    | 0.048    | 0.13    | 0.0086     | 0.032   |
| 9/10/2019  | 0.11    | 0.073   | 0.053    | 0.15    | 0.012      | 0.035   |
| 1/28/2020  |         | 0.069   |          |         | 0.012      |         |
| 1/29/2020  | 0.11    |         | 0.051    | 0.15    |            | 0.033   |
| 3/10/2020  | 0.13    | 0.056   | 0.049    | 0.15    | 0.013      | 0.036   |
| 9/16/2020  |         | 0.1     | 0.048    |         |            |         |
| 9/17/2020  | 0.11    |         |          | 0.16    | 0.0091 (J) | 0.028   |
| 3/24/2021  | 0.1     | 0.056   | 0.049    | 0.16    | 0.011      | 0.054   |
| 8/24/2021  |         |         | 0.047    | 0.16    |            |         |
| 8/25/2021  | 0.11    | 0.051   |          |         | 0.013      | 0.031   |
| 2/22/2022  | 0.11    | 0.067   |          |         |            |         |
| 2/23/2022  |         |         | 0.046    | 0.17    | 0.014      | 0.036   |
| 8/2/2022   |         | 0.057   |          |         |            |         |
| 8/3/2022   | 0.11    |         |          | 0.15    | 0.018      |         |
| 8/4/2022   |         |         | 0.042    |         |            | 0.043   |
| 2/7/2023   |         | 0.06    |          | 0.16    |            |         |
| 2/8/2023   | 0.1     |         | 0.044    |         | 0.02       | 0.052   |
| 8/1/2023   | 0.1     |         |          | 0.16    |            | 0.056   |
| 8/2/2023   |         | 0.055   | 0.04     |         | 0.015      |         |
| Mean       | 0.1067  | 0.05743 | 0.0505   | 0.1488  | 0.01356    | 0.03793 |
| Std. Dev.  | 0.01576 | 0.01347 | 0.005561 | 0.01295 | 0.006621   | 0.00727 |
| Upper Lim. | 0.11    | 0.06448 | 0.0534   | 0.1556  | 0.015      | 0.04133 |
| Lower Lim. | 0.096   | 0.05038 | 0.04759  | 0.1421  | 0.01       | 0.0341  |

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-3      | MGWC-8      |
|------------|-------------|-------------|-------------|
| 5/5/2016   |             |             | <0.0025     |
| 5/6/2016   | <0.0025     | <0.0025     |             |
| 6/21/2016  | <0.0025     | <0.0025     | 0.0004 (J)  |
| 8/15/2016  |             |             | 0.00053 (J) |
| 8/16/2016  | <0.0025     | <0.0025     |             |
| 9/28/2016  | <0.0025     |             | 0.00049 (J) |
| 9/29/2016  |             | <0.0025     |             |
| 11/16/2016 | <0.0025     | <0.0025     | 0.0004 (J)  |
| 1/17/2017  |             | <0.0025     | 0.00084 (J) |
| 1/19/2017  | <0.0025     |             |             |
| 3/2/2017   | <0.0025     | <0.0025     | 0.00068 (J) |
| 4/18/2017  | <0.0025     | <0.0025     | 0.00067 (J) |
| 3/29/2018  | <0.0025     |             |             |
| 3/30/2018  |             | <0.0025     | 0.0015 (J)  |
| 6/13/2018  | <0.0025     | <0.0025     | 0.0012 (J)  |
| 10/10/2018 | <0.0025     | <0.0025     | 0.0016 (J)  |
| 1/29/2019  | <0.0025     | <0.0025     | <0.0025     |
| 1/29/2020  | 0.00018 (J) | 0.00031 (J) | 0.0019      |
| 3/10/2020  | <0.0025     | <0.0025     | 0.0013 (J)  |
| 9/17/2020  | <0.0025     | <0.0025     | 0.0019 (J)  |
| 3/24/2021  | <0.0025     | <0.0025     | <0.0025     |
| 8/24/2021  |             | <0.0025     |             |
| 8/25/2021  | <0.0025     |             | 0.0015 (J)  |
| 2/22/2022  | <0.0025     |             |             |
| 2/23/2022  |             | <0.0025     | 0.0014 (J)  |
| 8/3/2022   | <0.0025     | <0.0025     |             |
| 8/4/2022   |             |             | 0.00064 (J) |
| 2/7/2023   |             | <0.0025     |             |
| 2/8/2023   | <0.0025     |             | 0.0002 (J)  |
| 8/1/2023   | <0.0025     | <0.0025     | 0.00025 (J) |
| Mean       | 0.00239     | 0.002396    | 0.001007    |
| Std. Dev.  | 0.0005063   | 0.0004779   | 0.0005351   |
| Upper Lim. | 0.0025      | 0.0025      | 0.001302    |
| Lower Lim. | 0.00018     | 0.00031     | 0.000712    |

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1       | MGWC-2      | MGWC-7      | MGWC-8       |
|------------|--------------|-------------|-------------|--------------|
| 5/5/2016   |              |             | <0.0025     | 0.000784 (J) |
| 5/6/2016   | 0.000126 (J) | 0.00166     |             |              |
| 6/21/2016  | 0.0005 (J)   | 0.0008 (J)  | <0.0025     | 0.0003 (J)   |
| 8/15/2016  |              |             | <0.0025     | <0.0025      |
| 8/16/2016  | <0.0025      | 0.0034      |             |              |
| 9/28/2016  | <0.0025      |             | <0.0025     | <0.0025      |
| 9/29/2016  |              | 0.0027      |             |              |
| 11/16/2016 | <0.0025      | 0.0022 (J)  | <0.0025     | <0.0025      |
| 1/17/2017  |              |             | <0.0025     | <0.0025      |
| 1/18/2017  |              | 0.008       |             |              |
| 1/19/2017  | <0.0025      |             |             |              |
| 3/2/2017   | <0.0025      | 0.005       | <0.0025     | <0.0025      |
| 4/18/2017  | <0.0025      |             | <0.0025     | 0.00044 (J)  |
| 4/19/2017  |              | 0.0011 (J)  |             |              |
| 3/29/2018  | <0.0025      |             | <0.0025     |              |
| 3/30/2018  |              | 0.0016 (J)  |             | 0.00058 (J)  |
| 6/13/2018  | <0.0025      | 0.0016 (J)  | <0.0025     | 0.00076 (J)  |
| 10/10/2018 | <0.0025      | 0.001 (J)   | <0.0025     | 0.00035 (J)  |
| 1/29/2019  | <0.0025      | 0.00315     | <0.0025     | <0.0025      |
| 3/26/2019  | <0.0025      | 0.0019 (J)  | <0.0025     | 0.0005 (J)   |
| 9/10/2019  | 0.00017 (J)  | 0.0011      | <0.0025     | 0.00079 (J)  |
| 1/28/2020  |              |             | <0.0025     |              |
| 1/29/2020  | <0.0025      | 0.0054      |             | 0.0009 (J)   |
| 3/10/2020  | <0.0025      | 0.0011 (J)  | <0.0025     | 0.0011 (J)   |
| 9/16/2020  |              | 0.00053 (J) |             |              |
| 9/17/2020  | <0.0025      |             | 0.00023 (J) | 0.00072 (J)  |
| 3/24/2021  | <0.0025      | 0.0022 (J)  | <0.0025     | 0.001 (J)    |
| 8/24/2021  |              | 0.00054 (J) |             |              |
| 8/25/2021  | <0.0025      |             | <0.0025     | 0.0046       |
| 2/22/2022  | <0.0025      |             |             |              |
| 2/23/2022  |              | 0.0039      | <0.0025     | 0.0014 (J)   |
| 8/3/2022   | 8.5E-05 (J)  |             | 0.00041 (J) |              |
| 8/4/2022   |              | 0.0002 (J)  |             | 0.0037       |
| 2/8/2023   | 0.00012 (J)  | 0.0021 (J)  | <0.0025     | 0.0018 (J)   |
| 8/1/2023   | <0.0025      |             |             | 0.002 (J)    |
| 8/2/2023   |              | 0.00032 (J) | 0.00031 (J) |              |
| Mean       | 0.002        | 0.002239    | 0.002215    | 0.001597     |
| Std. Dev.  | 0.0009726    | 0.001888    | 0.0007523   | 0.001153     |
| Upper Lim. | 0.0025       | 0.002854    | 0.0025      | 0.001482     |
| Lower Lim. | 0.0005       | 0.001149    | 0.00041     | 0.000647     |

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1     | MGWC-12    | MGWC-2    | MGWC-3    | MGWC-7     | MGWC-8     |
|------------|------------|------------|-----------|-----------|------------|------------|
| 5/5/2016   |            |            |           |           | <0.002     | <0.002     |
| 5/6/2016   | <0.002     |            | <0.002    | <0.002    |            |            |
| 6/21/2016  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 8/15/2016  |            |            |           |           | <0.002     | <0.002     |
| 8/16/2016  | <0.002     | <0.002     | <0.002    | <0.002    |            |            |
| 9/28/2016  | <0.002     |            |           |           | <0.002     | <0.002     |
| 9/29/2016  |            | <0.002     | <0.002    | <0.002    |            |            |
| 11/16/2016 | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 1/17/2017  |            |            |           | <0.002    | <0.002     | <0.002     |
| 1/18/2017  |            | <0.002     | <0.002    |           |            |            |
| 1/19/2017  | <0.002     |            |           |           |            |            |
| 3/2/2017   | 0.0036     | 0.0032     | 0.0033    | 0.003     | 0.0034     | 0.0031     |
| 4/18/2017  | <0.002     |            |           | <0.002    | <0.002     | <0.002     |
| 4/19/2017  |            |            | <0.002    |           |            |            |
| 4/25/2017  |            | <0.002     |           |           |            |            |
| 7/13/2017  |            | <0.002     |           |           |            |            |
| 3/29/2018  | <0.002     | <0.002     |           |           | <0.002     |            |
| 3/30/2018  |            |            | <0.002    | <0.002    |            | <0.002     |
| 6/12/2018  |            | <0.002     |           |           |            |            |
| 6/13/2018  | <0.002     |            | <0.002    | <0.002    | <0.002     | <0.002     |
| 10/10/2018 | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 1/29/2019  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 1/28/2020  |            | <0.002     |           |           | 0.0015 (J) |            |
| 1/29/2020  | <0.002     |            | <0.002    | <0.002    |            | <0.002     |
| 3/10/2020  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 9/16/2020  |            | 0.029      | <0.002    |           |            |            |
| 9/17/2020  | <0.002     |            |           | <0.002    | <0.002     | <0.002     |
| 3/24/2021  | <0.002     | <0.002     | <0.002    | <0.002    | <0.002     | <0.002     |
| 8/24/2021  |            |            | <0.002    | <0.002    |            |            |
| 8/25/2021  | <0.002     | <0.002     |           |           | <0.002     | <0.002     |
| 2/22/2022  | <0.002     | <0.002     |           |           | <0.002     |            |
| 2/23/2022  |            |            | <0.002    | <0.002    | <0.002     | <0.002     |
| 8/2/2022   |            | <0.002     |           |           |            |            |
| 8/3/2022   | <0.002     |            |           | <0.002    | <0.002     |            |
| 8/4/2022   |            |            | <0.002    |           |            | <0.002     |
| 2/7/2023   |            | 0.0012 (J) |           | <0.002    |            |            |
| 2/8/2023   | 0.0014 (J) |            | <0.002    |           | 0.0013 (J) | 0.0013 (J) |
| 8/1/2023   | <0.002     |            |           | <0.002    |            | <0.002     |
| 8/2/2023   |            | <0.002     | <0.002    |           | <0.002     |            |
| Mean       | 0.002048   | 0.003305   | 0.002062  | 0.002048  | 0.00201    | 0.002019   |
| Std. Dev.  | 0.000379   | 0.005896   | 0.0002837 | 0.0002182 | 0.0003673  | 0.0002909  |
| Upper Lim. | 0.0036     | 0.0032     | 0.0033    | 0.003     | 0.0034     | 0.0031     |
| Lower Lim. | 0.0014     | 0.0012     | 0.002     | 0.002     | 0.0015     | 0.0013     |

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7     | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|------------|-------------|
| 5/5/2016   |             |             |             |             | 0.0036 (J) | 0.00359 (J) |
| 5/6/2016   | <0.0025     |             | 0.00311 (J) | <0.0025     |            |             |
| 6/21/2016  | 0.0012 (J)  | <0.0025     | 0.0031 (J)  | 0.0006 (J)  | 0.0097 (J) | 0.0033 (J)  |
| 8/15/2016  |             |             |             |             | 0.0098     | 0.0038      |
| 8/16/2016  | 0.00047 (J) | <0.0025     | 0.0034      | 0.00064 (J) |            |             |
| 9/28/2016  | 0.00058 (J) |             |             |             | 0.0095     | 0.0043      |
| 9/29/2016  |             | <0.0025     | 0.0032      | 0.00054 (J) |            |             |
| 11/16/2016 | <0.0025     | <0.0025     | 0.0032      | 0.00041 (J) | 0.0094     | 0.004       |
| 1/17/2017  |             |             |             | 0.00051 (J) | 0.0099     | 0.0051      |
| 1/18/2017  |             | <0.0025     | 0.0032      |             |            |             |
| 1/19/2017  | 0.0004 (J)  |             |             |             |            |             |
| 3/2/2017   | <0.0025     | <0.0025     | 0.0042      | 0.00064 (J) | 0.013      | 0.0064      |
| 4/18/2017  | <0.0025     |             |             | 0.00057 (J) | 0.0086     | 0.005       |
| 4/19/2017  |             |             | 0.0035      |             |            |             |
| 4/25/2017  |             | <0.0025     |             |             |            |             |
| 7/13/2017  |             | <0.0025     |             |             |            |             |
| 3/29/2018  | <0.0025     | <0.0025     |             |             | 0.0088     |             |
| 3/30/2018  |             |             | 0.0037      | 0.00068 (J) |            | 0.015       |
| 6/12/2018  |             | <0.0025     |             |             |            |             |
| 6/13/2018  | <0.0025     |             | 0.0035      | 0.00048 (J) | 0.0093     | 0.014       |
| 10/10/2018 | <0.0025     | <0.0025     | 0.0034      | 0.00063 (J) | 0.012      | 0.018       |
| 1/29/2019  | <0.0025     | <0.0025     | 0.00293     | <0.0025     | 0.0103     | 0.0159      |
| 3/26/2019  | <0.0025     | <0.0025     | 0.003       | <0.0025     | 0.009      | 0.02        |
| 9/10/2019  | 0.00032 (J) | 0.00016 (J) | 0.0027      | 0.00065     | 0.011      | 0.019       |
| 1/28/2020  |             | <0.0025     |             |             | 0.008      |             |
| 1/29/2020  | 0.00027 (J) |             | 0.003       | 0.00067     |            | 0.025       |
| 3/10/2020  | <0.0025     | <0.0025     | 0.0024 (J)  | 0.0005 (J)  | 0.0081     | 0.017       |
| 9/16/2020  |             | 0.0015 (J)  | 0.002 (J)   |             |            |             |
| 9/17/2020  | 0.0002 (J)  |             |             | 0.00053 (J) | 0.0098     | 0.024       |
| 3/24/2021  | <0.0025     | <0.0025     | 0.0019 (J)  | 0.00053 (J) | 0.0063     | 0.002 (J)   |
| 8/24/2021  |             |             | 0.0018 (J)  | 0.00034 (J) |            |             |
| 8/25/2021  | 0.00018 (J) | <0.0025     |             |             | 0.0032     | 0.021       |
| 2/22/2022  | <0.0025     | <0.0025     |             |             |            |             |
| 2/23/2022  |             |             | 0.0016 (J)  | 0.0012 (J)  | 0.007      | 0.015       |
| 8/2/2022   |             | <0.0025     |             |             |            |             |
| 8/3/2022   | <0.0025     |             |             | 0.00051 (J) | 0.0044     |             |
| 8/4/2022   |             |             | 0.0013 (J)  |             |            | 0.0092      |
| 2/7/2023   |             | <0.0025     |             | 0.0025      |            |             |
| 2/8/2023   | <0.0025     |             | 0.0012 (J)  |             | 0.0044     | 0.0019 (J)  |
| 8/1/2023   | <0.0025     |             |             | 0.00054 (J) |            | 0.0015 (J)  |
| 8/2/2023   |             | <0.0025     | 0.0011 (J)  |             | 0.0031     |             |
| Mean       | 0.001788    | 0.002355    | 0.002715    | 0.0007574   | 0.008183   | 0.01104     |
| Std. Dev.  | 0.001014    | 0.0005218   | 0.0008745   | 0.0004694   | 0.002793   | 0.007889    |
| Upper Lim. | 0.0025      | 0.0025      | 0.003172    | 0.00068     | 0.009643   | 0.01517     |
| Lower Lim. | 0.00047     | 0.0015      | 0.002257    | 0.00051     | 0.006722   | 0.006917    |

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1 | MGWC-12   | MGWC-2     | MGWC-3    | MGWC-7 | MGWC-8    |
|------------|--------|-----------|------------|-----------|--------|-----------|
| 5/5/2016   |        |           |            |           | 0.75   | 1.21      |
| 5/6/2016   | 1.07   |           | 0.633      | 1.41      |        |           |
| 6/21/2016  | 2.01   | 0.292 (U) | 1.19 (U)   | 1.71      | 1.01   | 0.895 (U) |
| 8/15/2016  |        |           |            |           | 1.3    | 1.64      |
| 8/16/2016  | 1.12   | 0.232 (U) | 0.516      | 1.75      |        |           |
| 9/28/2016  | 1.09   |           | 1.11       | 0.665     | 1.06   | 2.17      |
| 9/29/2016  |        |           |            | 1.43      |        |           |
| 11/16/2016 | 1.58   | 0.798     | 0.694      | 1.9       | 0.855  | 1.49      |
| 1/17/2017  |        |           |            | 1.9       | 1.59   | 1.75      |
| 1/18/2017  |        | 0.302 (U) | 0.688      |           |        |           |
| 1/19/2017  | 1.64   |           |            |           |        |           |
| 3/2/2017   | 1.08   | 0.437     | 0.484      | 1.37      | 1.4    | 1.03      |
| 4/18/2017  | 1.23   |           |            | 1.42      | 0.684  | 1.83      |
| 4/19/2017  |        |           | 0.599      |           |        |           |
| 4/25/2017  |        | 0.391     |            |           |        |           |
| 7/13/2017  |        | 0.47      |            |           |        |           |
| 3/29/2018  | 1.21   | 0.736     |            |           | 0.822  |           |
| 3/30/2018  |        |           | 0.677      | 1.43      |        | 2.15      |
| 6/12/2018  |        | 0.438     |            |           |        |           |
| 6/13/2018  | 1.09   |           | 0.272 (U)  | 1.27      | 0.716  | 1.51      |
| 10/10/2018 | 1.95   | 0.371     | 0.336      | 1.54      | 1.51   | 2.72      |
| 1/29/2019  | 1.11   | 0.639     | 0.719      | 1.34      | 1.7    | 1.93      |
| 3/26/2019  | 1      | 0.607     | 0.41 (U)   | 1.25      | 0.784  | 1.79      |
| 9/10/2019  | 1.26   | 0.939     | 0.548      | 1.6       | 0.958  | 1.78      |
| 1/28/2020  |        | 0.465     |            |           | 1.38   |           |
| 1/29/2020  | 1.39   |           | 0.0985 (U) | 1.44      |        | 1.61      |
| 3/10/2020  | 1.4    | 0.34 (U)  | 0.589      | 1.32      | 0.903  | 1.95      |
| 9/16/2020  |        | 1.09      | 1.11       |           |        |           |
| 9/17/2020  | 1.79   |           |            | 0.666 (U) | 1.28   | 1.56      |
| 12/8/2020  | 1.87   |           |            | 1.65      |        |           |
| 3/24/2021  | 1.81   | 0.434 (U) | 0.625      | 1.58      | 1.2    | 0.636     |
| 8/24/2021  |        |           | 0.313 (U)  | 1.65      |        |           |
| 8/25/2021  | 2.12   | 0.563     |            |           | 0.767  | 2.13      |
| 2/22/2022  | 1.85   | 0.888     |            |           |        |           |
| 2/23/2022  |        |           | 0.598      | 1.47      | 1.42   | 2.62      |
| 8/2/2022   |        | 1.08      |            |           |        |           |
| 8/3/2022   | 2.2    |           |            | 2.56      | 1.11   |           |
| 8/4/2022   |        |           | 0.632      |           |        | 1.24      |
| 2/7/2023   |        | 0.849     |            | 2.14      |        |           |
| 2/8/2023   | 1.77   |           | 0.799      |           | 1.88   | 1.11      |
| 8/1/2023   | 1.61   |           |            | 2.07      |        | 0.872     |
| 8/2/2023   |        | 0.432 (U) | 1.09       |           | 1.46   |           |
| Mean       | 1.51   | 0.6045    | 0.6211     | 1.578     | 1.154  | 1.636     |
| Std. Dev.  | 0.3825 | 0.2761    | 0.2604     | 0.3681    | 0.3472 | 0.5383    |
| Upper Lim. | 1.706  | 0.7489    | 0.7573     | 1.766     | 1.335  | 1.917     |
| Lower Lim. | 1.315  | 0.4601    | 0.4849     | 1.39      | 0.9723 | 1.354     |

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1    | MGWC-12   | MGWC-2    | MGWC-3    | MGWC-7   | MGWC-8    |
|------------|-----------|-----------|-----------|-----------|----------|-----------|
| 5/5/2016   |           |           |           |           | 0.394    | 0.103 (J) |
| 5/6/2016   | 0.28 (J)  |           | 0.088 (J) | 0.086 (J) |          |           |
| 6/21/2016  | 0.36      | 0.14 (J)  | 0.19 (J)  | 0.23 (J)  | 0.49     | 0.1 (J)   |
| 8/15/2016  |           |           |           |           | 0.44     | 0.11 (J)  |
| 8/16/2016  | 0.27      | 0.29      | 0.087 (J) | <0.2      |          |           |
| 9/28/2016  | 0.26      |           | <0.2      | 0.082 (J) | 0.4      | 0.1 (J)   |
| 9/29/2016  |           | 0.26      |           |           |          |           |
| 11/16/2016 | 0.24      | 0.25      | <0.2      | 0.087 (J) | 0.36     | 0.091 (J) |
| 1/17/2017  |           |           |           | 0.086 (J) | 0.2      | <0.082    |
| 1/18/2017  |           | 0.26      | <0.2      |           |          |           |
| 1/19/2017  | 0.22      |           |           |           |          |           |
| 3/2/2017   | 0.27      | 0.28      | 0.15 (J)  | 0.15 (J)  | 0.36     | 0.16 (J)  |
| 4/18/2017  | 0.2       |           |           | <0.2      | 0.29     | <0.082    |
| 4/19/2017  |           |           | <0.2      |           |          |           |
| 4/25/2017  |           | 0.25      |           |           |          |           |
| 7/13/2017  |           | 0.21      |           |           |          |           |
| 10/10/2017 | 0.18 (J)  | 0.22      | <0.2      | <0.2      | 0.28     | <0.082    |
| 3/29/2018  | 0.16 (J)  | 0.23      |           |           | 0.23     |           |
| 3/30/2018  |           |           | <0.2      | <0.2      |          | 0.088 (J) |
| 6/12/2018  |           | 0.23      |           |           |          |           |
| 6/13/2018  | 0.14 (J)  |           | <0.2      | <0.2      | 0.2      | 0.15 (J)  |
| 10/10/2018 | 0.17 (J)  | 0.25      | 0.085 (J) | <0.2      | 0.23     | 0.11 (J)  |
| 3/26/2019  | 0.16      | 0.22      | 0.076 (J) | 0.072 (J) | 0.19 (J) | 0.088 (J) |
| 9/10/2019  | 0.098 (J) | 0.2       | 0.07 (J)  | 0.073 (J) | 0.15     | 0.083 (J) |
| 3/10/2020  | 0.086 (J) | 0.15      | 0.05 (J)  | 0.058 (J) | 0.18     | 0.084 (J) |
| 9/16/2020  |           | 0.26      | 0.076 (J) |           |          |           |
| 9/17/2020  | 0.15      |           |           | 0.083 (J) | 0.25     | 0.11      |
| 3/24/2021  | 0.27      | 0.27      | 0.11      | 0.092 (J) | 0.35     | 0.11      |
| 8/24/2021  |           |           | 0.095 (J) | 0.11      |          |           |
| 8/25/2021  | 0.097 (J) | 0.19      |           |           | 0.15     | 0.038 (J) |
| 2/22/2022  | 0.047 (J) | 0.093 (J) |           |           |          |           |
| 2/23/2022  |           |           | 0.075 (J) | 0.086 (J) | 0.22     | 0.05 (J)  |
| 8/2/2022   |           | 0.074 (J) |           |           |          |           |
| 8/3/2022   | 0.12      |           |           | 0.079 (J) | 0.2      |           |
| 8/4/2022   |           |           | 0.072 (J) |           |          | 0.087 (J) |
| 2/7/2023   |           | 0.25      |           | 0.076 (J) |          |           |
| 2/8/2023   | 0.11      |           | 0.074 (J) |           | 0.14     | 0.084 (J) |
| 8/1/2023   | 0.15      |           |           | 0.1       |          | 0.11      |
| 8/2/2023   |           | 0.25      | 0.087 (J) |           | 0.2      |           |
| Mean       | 0.1835    | 0.2194    | 0.1266    | 0.125     | 0.2684   | 0.08995   |
| Std. Dev.  | 0.07909   | 0.058     | 0.05876   | 0.05834   | 0.102    | 0.03274   |
| Upper Lim. | 0.226     | 0.251     | 0.2       | 0.2       | 0.3231   | 0.1075    |
| Lower Lim. | 0.1411    | 0.1993    | 0.075     | 0.082     | 0.2136   | 0.07238   |

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals  
 Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12    | MGWC-7      | MGWC-8      |
|------------|------------|-------------|-------------|
| 5/5/2016   |            | <0.001      | <0.001      |
| 6/21/2016  | 0.0001 (J) | 0.0003 (J)  | <0.001      |
| 8/15/2016  |            | <0.001      | <0.001      |
| 8/16/2016  | <0.001     |             |             |
| 9/28/2016  |            | <0.001      | <0.001      |
| 9/29/2016  | <0.001     |             |             |
| 11/16/2016 | <0.001     | <0.001      | <0.001      |
| 1/17/2017  |            | <0.001      | <0.001      |
| 1/18/2017  | <0.001     |             |             |
| 3/2/2017   | <0.001     | <0.001      | <0.001      |
| 4/18/2017  |            | <0.001      | <0.001      |
| 4/25/2017  | <0.001     |             |             |
| 7/13/2017  | <0.001     |             |             |
| 3/29/2018  | <0.001     | <0.001      |             |
| 3/30/2018  |            | <0.001      |             |
| 1/29/2019  | <0.001     | <0.001      | <0.001      |
| 1/28/2020  | <0.001     | <0.001      |             |
| 1/29/2020  |            |             | <0.001      |
| 3/10/2020  | <0.001     | <0.001      | <0.001      |
| 9/16/2020  | <0.001     |             |             |
| 9/17/2020  |            | <0.001      | <0.001      |
| 3/24/2021  | <0.001     | <0.001      | <0.001      |
| 8/25/2021  | <0.001     | 0.00019 (J) | 0.00022 (J) |
| 2/22/2022  | <0.001     |             |             |
| 2/23/2022  |            | <0.001      | <0.001      |
| 8/2/2022   | <0.001     |             |             |
| 8/3/2022   |            | 0.00021 (J) |             |
| 8/4/2022   |            |             | <0.001      |
| 2/7/2023   | <0.001     |             |             |
| 2/8/2023   |            | <0.001      | <0.001      |
| 8/1/2023   |            |             | <0.001      |
| 8/2/2023   | <0.001     | <0.001      |             |
| Mean       | 0.0009526  | 0.0008789   | 0.0009589   |
| Std. Dev.  | 0.0002065  | 0.0002879   | 0.0001789   |
| Upper Lim. | 0.001      | 0.001       | 0.001       |
| Lower Lim. | 0.0001     | 0.0003      | 0.00022     |

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1     | MGWC-12    | MGWC-2     | MGWC-3     | MGWC-7   | MGWC-8     |
|------------|------------|------------|------------|------------|----------|------------|
| 5/5/2016   |            |            |            |            | 0.0586   | 0.0252 (J) |
| 5/6/2016   | 0.0128 (J) |            | <0.05      | 0.0113 (J) |          |            |
| 6/21/2016  | 0.0102 (J) | 0.0112 (J) | 0.0047 (J) | 0.0103 (J) | 0.122    | 0.0228 (J) |
| 8/15/2016  |            |            |            |            | 0.12     | 0.026      |
| 8/16/2016  | 0.012      | 0.014      | 0.0043 (J) | 0.01       |          |            |
| 9/28/2016  | 0.012      |            | 0.0048 (J) | 0.01       | 0.12     | 0.026      |
| 9/29/2016  |            | 0.017      |            |            |          |            |
| 11/16/2016 | 0.013      | 0.016      | 0.0058     | 0.014      | 0.13     | 0.031      |
| 1/17/2017  |            |            |            | 0.014      | 0.14     | 0.032      |
| 1/18/2017  |            | 0.015      | 0.0051     |            |          |            |
| 1/19/2017  | 0.011      |            |            |            |          |            |
| 3/2/2017   | 0.013      | 0.015      | 0.0061     | 0.013      | 0.13     | 0.031      |
| 4/18/2017  | 0.0097     |            |            | 0.01       | 0.11     | 0.023      |
| 4/19/2017  |            |            | 0.0042 (J) |            |          |            |
| 4/25/2017  |            | 0.013      |            |            |          |            |
| 7/13/2017  |            | 0.014      |            |            |          |            |
| 3/29/2018  | 0.017 (J)  | 0.032 (J)  |            |            | 0.17 (J) |            |
| 3/30/2018  |            |            | 0.008 (J)  | 0.017 (J)  |          | 0.058 (J)  |
| 6/12/2018  |            | 0.019      |            |            |          |            |
| 6/13/2018  | 0.0094     |            | 0.0054     | 0.011      | 0.12     | 0.035      |
| 10/10/2018 | 0.011      | 0.027      | 0.0055     | 0.013      | 0.13     | 0.046      |
| 1/29/2019  | 0.0109     | 0.0172     | 0.00537    | 0.0106     | 0.112    | 0.0361     |
| 3/26/2019  | 0.01       | 0.02       | 0.0051     | 0.012      | 0.12     | 0.043      |
| 9/10/2019  | 0.012      | 0.023      | 0.0074     | 0.015      | 0.11     | 0.042      |
| 1/28/2020  |            | 0.022      |            |            | 0.13     |            |
| 1/29/2020  | 0.0096     |            | 0.0059     | 0.012      |          | 0.037      |
| 3/10/2020  | <0.025     | 0.018      | 0.0068     | 0.014      | 0.11     | 0.028      |
| 9/16/2020  |            | 0.025      | 0.0055     |            |          |            |
| 9/17/2020  | 0.0086     |            |            | 0.012      | 0.11     | 0.039      |
| 3/24/2021  | 0.013      | 0.018      | 0.0066     | 0.013      | 0.13     | 0.011      |
| 8/24/2021  |            |            | 0.0062     | 0.012      |          |            |
| 8/25/2021  | 0.0096     | 0.017      |            |            | 0.12     | 0.037      |
| 2/22/2022  | 0.01       | 0.022      |            |            |          |            |
| 2/23/2022  |            |            | 0.0066     | 0.013      | 0.13     | 0.028      |
| 8/2/2022   |            | 0.026      |            |            |          |            |
| 8/3/2022   | 0.01       |            |            | 0.013      | 0.13     |            |
| 8/4/2022   |            |            | 0.0063     |            |          | 0.021      |
| 2/7/2023   |            | 0.024      |            | 0.014      |          |            |
| 2/8/2023   | 0.01       |            | 0.0065     |            | 0.14     | 0.012      |
| 8/1/2023   | 0.0084     |            |            | 0.011      |          | 0.012      |
| 8/2/2023   |            | 0.019      | 0.0031 (J) |            | 0.13     |            |
| Mean       | 0.01112    | 0.01932    | 0.006533   | 0.0124     | 0.1227   | 0.03053    |
| Std. Dev.  | 0.001925   | 0.00512    | 0.004171   | 0.001792   | 0.01927  | 0.01138    |
| Upper Lim. | 0.01212    | 0.022      | 0.0066     | 0.01334    | 0.13     | 0.03648    |
| Lower Lim. | 0.01011    | 0.01664    | 0.0051     | 0.01146    | 0.112    | 0.02458    |

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-12     | MGWC-2      | MGWC-3    | MGWC-7    | MGWC-8      |
|------------|-------------|-------------|-----------|-----------|-------------|
| 5/5/2016   |             |             |           | <0.0002   | <0.0002     |
| 5/6/2016   |             | <0.0002     | <0.0002   |           |             |
| 6/21/2016  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/15/2016  |             |             |           | <0.0002   | 0.00015 (J) |
| 8/16/2016  | <0.0002     | 7.8E-05 (J) | <0.0002   |           |             |
| 9/28/2016  |             |             |           | <0.0002   | <0.0002     |
| 9/29/2016  | <0.0002     | <0.0002     | <0.0002   |           |             |
| 11/16/2016 | 8.6E-05 (J) | 0.0001 (J)  | 7E-05 (J) | 8E-05 (J) | 0.00021     |
| 1/17/2017  |             |             | <0.0002   | <0.0002   | 7.6E-05 (J) |
| 1/18/2017  | <0.0002     | <0.0002     |           |           |             |
| 3/2/2017   | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 4/18/2017  |             |             | <0.0002   | <0.0002   | 0.00018 (J) |
| 4/19/2017  |             | <0.0002     |           |           |             |
| 4/25/2017  | <0.0002     |             |           |           |             |
| 7/13/2017  | <0.0002     |             |           |           |             |
| 3/29/2018  | 7.4E-05 (J) |             |           | <0.0002   |             |
| 3/30/2018  |             | <0.0002     | <0.0002   |           | 0.00013 (J) |
| 6/12/2018  | <0.0002     |             |           |           |             |
| 6/13/2018  |             | <0.0002     | <0.0002   | <0.0002   | 0.00074     |
| 10/10/2018 | <0.0002     | <0.0002     | <0.0002   | <0.0002   | 0.00013 (J) |
| 1/29/2019  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 1/28/2020  | <0.0002     |             |           | <0.0002   |             |
| 1/29/2020  |             | <0.0002     | <0.0002   |           | 0.00012 (J) |
| 3/10/2020  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 9/16/2020  | <0.0002     | <0.0002     |           |           |             |
| 9/17/2020  |             |             | <0.0002   | <0.0002   | 0.00014 (J) |
| 3/24/2021  | <0.0002     | <0.0002     | <0.0002   | <0.0002   | <0.0002     |
| 8/24/2021  |             | <0.0002     | <0.0002   |           |             |
| 8/25/2021  | <0.0002     |             |           | <0.0002   | 0.0041      |
| 10/26/2021 |             |             |           |           | <0.0002     |
| 2/22/2022  | <0.0002     |             |           |           |             |
| 2/23/2022  |             | <0.0002     | <0.0002   | <0.0002   | 0.00028     |
| 8/2/2022   | <0.0002     |             |           |           |             |
| 8/3/2022   |             |             | <0.0002   | <0.0002   |             |
| 8/4/2022   |             | <0.0002     |           |           | 0.00068     |
| 2/7/2023   | <0.0002     |             | <0.0002   |           |             |
| 2/8/2023   |             | <0.0002     |           | <0.0002   | 0.00026     |
| 8/1/2023   |             |             | <0.0002   |           | 0.00014 (J) |
| 8/2/2023   | <0.0002     | <0.0002     |           | <0.0002   |             |
| Mean       | 0.0001886   | 0.0001894   | 0.0001938 | 0.0001943 | 0.0004062   |
| Std. Dev.  | 3.614E-05   | 3.357E-05   | 2.837E-05 | 2.619E-05 | 0.0008409   |
| Upper Lim. | 0.0002      | 0.0002      | 0.0002    | 0.0002    | 0.00021     |
| Lower Lim. | 8.6E-05     | 0.0001      | 7E-05     | 8E-05     | 0.00014     |

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-7      | MGWC-8     |
|------------|-------------|-------------|-------------|------------|
| 5/5/2016   |             |             | 0.00351 (J) | <0.015     |
| 5/6/2016   | 0.0021 (J)  |             |             |            |
| 6/21/2016  | 0.002 (J)   | 0.002 (J)   | <0.015      | <0.015     |
| 8/15/2016  |             |             | <0.015      | <0.015     |
| 8/16/2016  | 0.0019 (J)  | 0.0012 (J)  |             |            |
| 9/28/2016  | 0.0018 (J)  |             | <0.015      | <0.015     |
| 9/29/2016  |             | 0.0014 (J)  |             |            |
| 11/16/2016 | <0.075      | <0.015      | <0.015      | <0.015     |
| 1/17/2017  |             |             | <0.015      | <0.015     |
| 1/18/2017  |             | <0.015      |             |            |
| 1/19/2017  | 0.0011 (J)  |             |             |            |
| 3/2/2017   | 0.0012 (J)  | <0.015      | <0.015      | <0.015     |
| 4/18/2017  | 0.0013 (J)  |             | <0.015      | 0.0037 (J) |
| 4/25/2017  |             | <0.015      |             |            |
| 7/13/2017  |             | <0.015      |             |            |
| 3/29/2018  | 0.0017 (J)  | <0.015      | <0.015      |            |
| 3/30/2018  |             |             |             | <0.015     |
| 6/12/2018  |             | <0.015      |             |            |
| 6/13/2018  | 0.00087 (J) |             | <0.015      | <0.015     |
| 10/10/2018 | <0.075      | <0.015      | <0.015      | <0.015     |
| 1/29/2019  | <0.075      | <0.015      | <0.015      | <0.015     |
| 1/28/2020  |             | <0.015      | <0.015      |            |
| 1/29/2020  | 0.0015 (J)  |             |             | <0.015     |
| 3/10/2020  | <0.075      | <0.015      | <0.015      | <0.015     |
| 9/16/2020  |             | 0.0024 (J)  |             |            |
| 9/17/2020  | 0.0012 (J)  |             | <0.015      | <0.015     |
| 3/24/2021  | 0.0029 (J)  | <0.015      | <0.015      | <0.015     |
| 8/25/2021  | 0.00088 (J) | <0.015      | <0.015      | <0.015     |
| 2/22/2022  | 0.0014 (J)  | 0.00064 (J) |             |            |
| 2/23/2022  |             |             | <0.015      | <0.015     |
| 8/2/2022   |             | 0.00093 (J) |             |            |
| 8/3/2022   | 0.0011 (J)  |             | <0.015      |            |
| 8/4/2022   |             |             |             | <0.015     |
| 2/7/2023   |             | <0.015      |             |            |
| 2/8/2023   | 0.0012 (J)  |             | <0.015      | <0.015     |
| 8/1/2023   | 0.0012 (J)  |             |             | <0.015     |
| 8/2/2023   |             | <0.015      | <0.015      |            |
| Mean       | 0.01549     | 0.01112     | 0.01445     | 0.01446    |
| Std. Dev.  | 0.02958     | 0.006291    | 0.002507    | 0.002466   |
| Upper Lim. | 0.0029      | 0.015       | 0.015       | 0.015      |
| Lower Lim. | 0.0012      | 0.002       | 0.00351     | 0.0037     |

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant: McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1     | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-7      | MGWC-8      |
|------------|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |            |             |             |             | <0.005      | <0.005      |
| 5/6/2016   | <0.005     |             | <0.005      | <0.005      |             |             |
| 6/21/2016  | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/15/2016  |            |             |             |             | <0.005      | 0.00033 (J) |
| 8/16/2016  | <0.005     | <0.005      | <0.005      | <0.005      |             |             |
| 9/28/2016  | <0.005     |             | <0.005      | <0.005      | <0.005      | 0.00038 (J) |
| 9/29/2016  |            | <0.005      | <0.005      | <0.005      |             |             |
| 11/16/2016 | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/17/2017  |            |             |             | <0.005      | <0.005      | <0.005      |
| 1/18/2017  |            | <0.005      | <0.005      |             |             |             |
| 1/19/2017  | <0.005     |             |             |             |             |             |
| 3/2/2017   | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 4/18/2017  | <0.005     |             |             | <0.005      | <0.005      | 0.0024      |
| 4/19/2017  |            |             | <0.005      |             |             |             |
| 4/25/2017  |            |             | <0.005      |             |             |             |
| 7/13/2017  |            |             | <0.005      |             |             |             |
| 3/29/2018  | 0.0005 (J) | 0.00027 (J) |             |             | 0.00026 (J) |             |
| 3/30/2018  |            |             | 0.00045 (J) | 0.00044 (J) |             | 0.00027 (J) |
| 6/12/2018  |            | <0.005      |             |             |             |             |
| 6/13/2018  | <0.005     |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 10/10/2018 | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/29/2019  | <0.005     | <0.005      | <0.005      | <0.005      | <0.005      | <0.005      |
| 1/28/2020  |            | <0.005      |             |             | <0.005      |             |
| 1/29/2020  | <0.005     |             | <0.005      | <0.005      |             | <0.005      |
| 2/22/2022  | <0.005     | <0.005      |             |             |             |             |
| 2/23/2022  |            |             | <0.005      | <0.005      | <0.005      | <0.005      |
| 8/2/2022   |            | <0.005      |             |             |             |             |
| 8/3/2022   | <0.005     |             |             | <0.005      | <0.005      |             |
| 8/4/2022   |            |             | <0.005      |             |             | <0.005      |
| 2/7/2023   |            | <0.005      |             | <0.005      |             |             |
| 2/8/2023   | <0.005     |             | <0.005      |             | <0.005      | <0.005      |
| 8/1/2023   | <0.005     |             |             | <0.005      |             | <0.005      |
| 8/2/2023   |            | <0.005      | <0.005      |             | <0.005      |             |
| Mean       | 0.004735   | 0.004722    | 0.004732    | 0.004732    | 0.004721    | 0.004022    |
| Std. Dev.  | 0.001091   | 0.001147    | 0.001104    | 0.001106    | 0.001115    | 0.001871    |
| Upper Lim. | 0.005      | 0.005       | 0.005       | 0.005       | 0.005       | 0.005       |
| Lower Lim. | 0.0005     | 0.00027     | 0.00045     | 0.00044     | 0.00026     | 0.0024      |

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 9/25/2023 4:24 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

|            | MGWC-1      | MGWC-12     | MGWC-2      | MGWC-3      | MGWC-8      |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/5/2016   |             |             |             |             | <0.001      |
| 5/6/2016   | <0.001      |             | <0.001      | <0.001      |             |
| 6/21/2016  | 9E-05 (J)   | <0.001      | <0.001      | <0.001      | 0.0001 (J)  |
| 8/15/2016  |             |             |             |             | 0.00016 (J) |
| 8/16/2016  | <0.001      | <0.001      | <0.001      | <0.001      |             |
| 9/28/2016  | <0.001      |             |             |             | 0.00014 (J) |
| 9/29/2016  |             | <0.001      | <0.001      | <0.001      |             |
| 11/16/2016 | <0.001      | <0.001      | <0.001      | <0.001      | 9E-05 (J)   |
| 1/17/2017  |             |             |             | <0.001      | 0.00016 (J) |
| 1/18/2017  |             | <0.001      | <0.001      |             |             |
| 1/19/2017  | <0.001      |             |             |             |             |
| 3/2/2017   | <0.001      | <0.001      | <0.001      | <0.001      | 0.00018 (J) |
| 4/18/2017  | 9.5E-05 (J) |             |             | <0.001      | 0.00019 (J) |
| 4/19/2017  |             |             | <0.001      |             |             |
| 4/25/2017  |             | <0.001      |             |             |             |
| 7/13/2017  |             | <0.001      |             |             |             |
| 3/29/2018  | 0.00014 (J) | <0.001      |             |             |             |
| 3/30/2018  |             |             | <0.001      | <0.001      | 0.00027 (J) |
| 6/12/2018  |             | <0.001      |             |             |             |
| 6/13/2018  | <0.001      |             | <0.001      | <0.001      | 0.00027 (J) |
| 10/10/2018 | <0.001      | <0.001      | <0.001      | <0.001      | 0.00025 (J) |
| 1/29/2019  | <0.001      | <0.001      | <0.001      | <0.001      | <0.001      |
| 1/28/2020  |             | <0.001      |             |             |             |
| 1/29/2020  | 0.00032 (J) |             | 0.00021 (J) | 0.00037 (J) | 0.00042 (J) |
| 3/10/2020  | <0.001      | 0.00015 (J) | <0.001      | 0.00016 (J) | 0.00025 (J) |
| 9/16/2020  |             | 0.00027 (J) | <0.001      |             |             |
| 9/17/2020  | 0.00016 (J) |             |             | <0.001      | 0.00031 (J) |
| 3/24/2021  | <0.001      | <0.001      | <0.001      | <0.001      | <0.001      |
| 8/24/2021  |             |             | <0.001      | <0.001      |             |
| 8/25/2021  | <0.001      | <0.001      |             |             | 0.0004 (J)  |
| 2/22/2022  | <0.001      | <0.001      |             |             |             |
| 2/23/2022  |             |             | <0.001      | <0.001      | <0.001      |
| 8/2/2022   |             | <0.001      |             |             |             |
| 8/3/2022   | <0.001      |             |             | <0.001      |             |
| 8/4/2022   |             |             | <0.001      |             | <0.001      |
| 2/7/2023   |             | <0.001      |             | <0.001      |             |
| 2/8/2023   | <0.001      |             | <0.001      |             | <0.001      |
| 8/1/2023   | <0.001      |             |             | <0.001      | <0.001      |
| 8/2/2023   |             | <0.001      | <0.001      |             |             |
| Mean       | 0.0008002   | 0.0009248   | 0.0009624   | 0.00093     | 0.0004852   |
| Std. Dev.  | 0.0003686   | 0.0002384   | 0.0001724   | 0.0002236   | 0.0003818   |
| Upper Lim. | 0.001       | 0.001       | 0.001       | 0.001       | 0.0002416   |
| Lower Lim. | 0.00032     | 0.00027     | 0.00021     | 0.00037     | 0.0001397   |

**FIGURE I.**

## Appendix IV Trend Tests - Significant Results

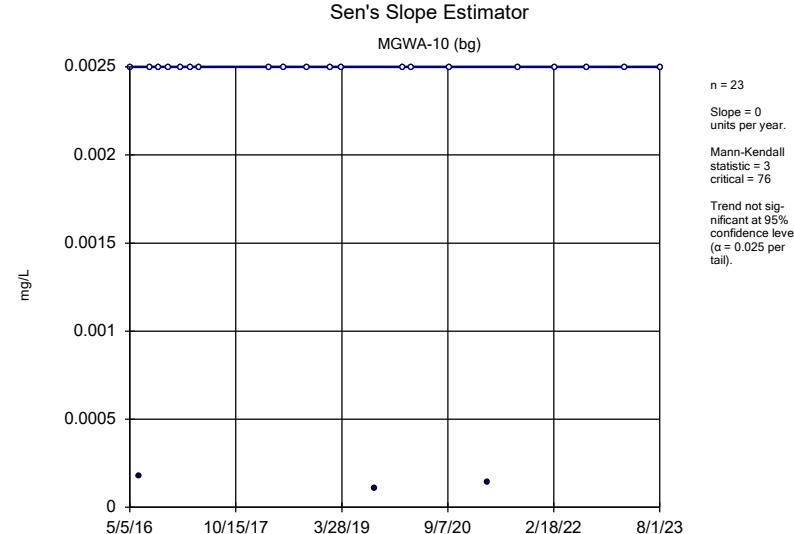
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:51 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)      | MGWC-7      | -0.0007131   | -101         | -76             | Yes         | 23       | 0           | n/a              | n/a          | 0.05         | NP            |

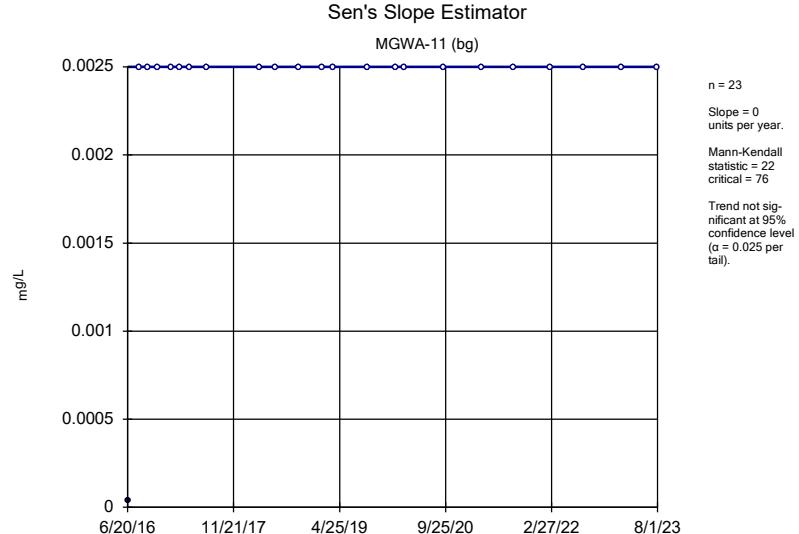
## Appendix IV Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:51 PM

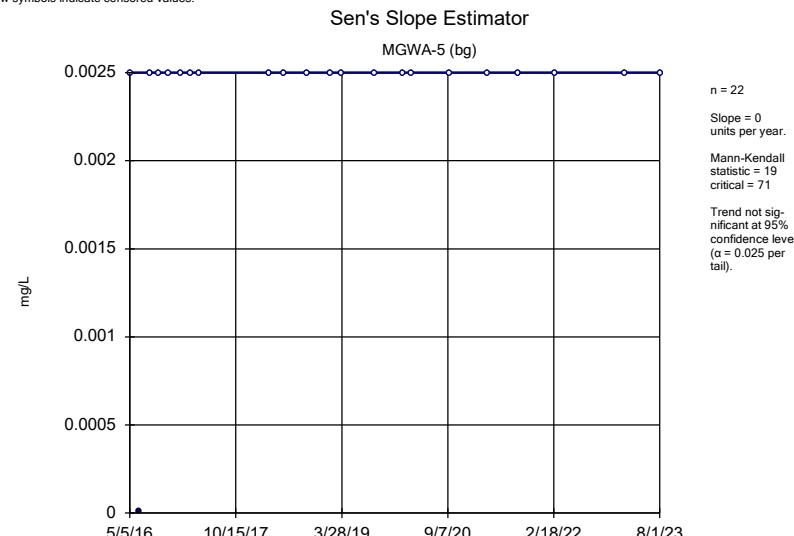
| <u>Constituent</u>   | <u>Well</u>   | <u>Slope</u>      | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|----------------------|---------------|-------------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)        | MGWA-10 (bg)  | 0                 | 3            | 76              | No          | 23        | 86.96       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-11 (bg)  | 0                 | 22           | 76              | No          | 23        | 95.65       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-5 (bg)   | 0                 | 19           | 71              | No          | 22        | 95.45       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-6 (bg)   | 0                 | -21          | -76             | No          | 23        | 43.48       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-6A (bg)  | 0.00003125        | 5            | 30              | No          | 12        | 16.67       | n/a              | n/a          | 0.05         | NP            |
| <b>Cobalt (mg/L)</b> | <b>MGWC-7</b> | <b>-0.0007131</b> | <b>-101</b>  | <b>-76</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>    | <b>n/a</b>       | <b>n/a</b>   | <b>0.05</b>  | <b>NP</b>     |
| Cobalt (mg/L)        | MGWC-8        | 0.00206           | 66           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-10 (bg)  | -0.00002307       | -8           | -76             | No          | 23        | 4.348       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-11 (bg)  | 0.0008063         | 50           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-5 (bg)   | 0.0002355         | 43           | 76              | No          | 23        | 4.348       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-6 (bg)   | 0                 | 4            | 76              | No          | 23        | 95.65       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-6A (bg)  | -0.00004875       | -30          | -30             | No          | 12        | 66.67       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWC-7        | 0                 | 36           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |



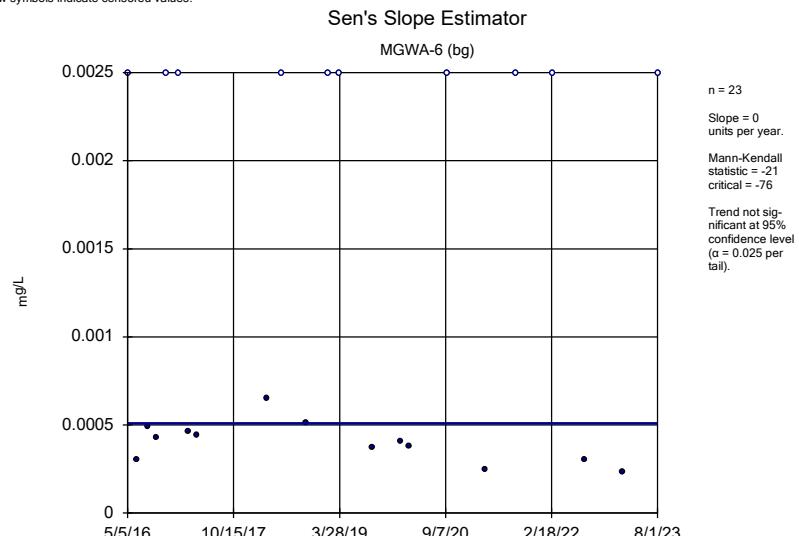
Constituent: Cobalt Analysis Run 9/26/2023 12:49 PM View: Trend Tests - App IV  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



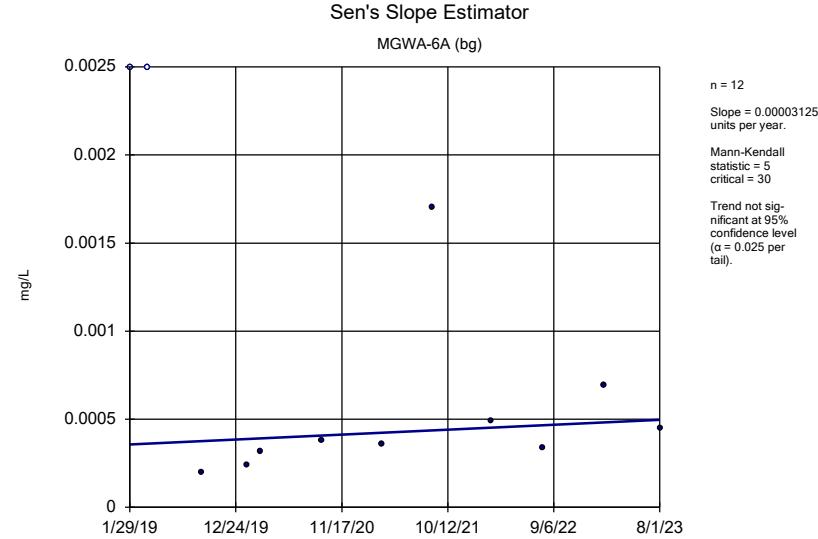
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



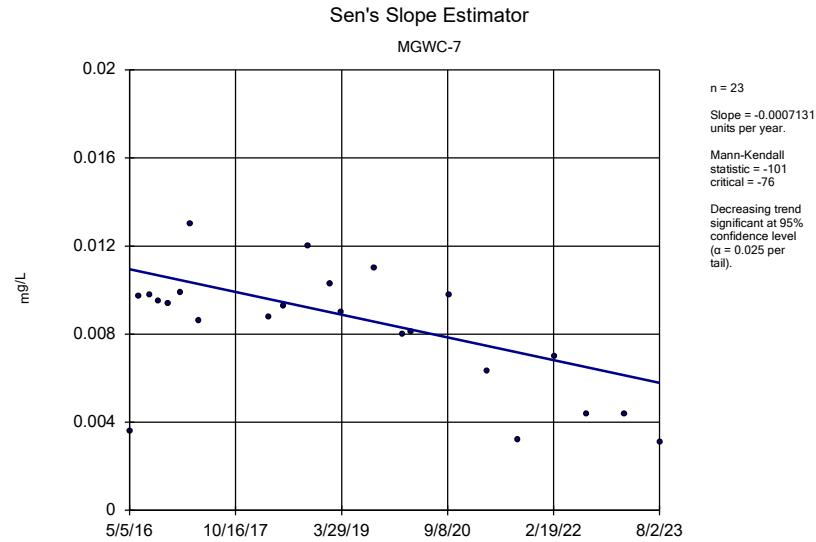
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



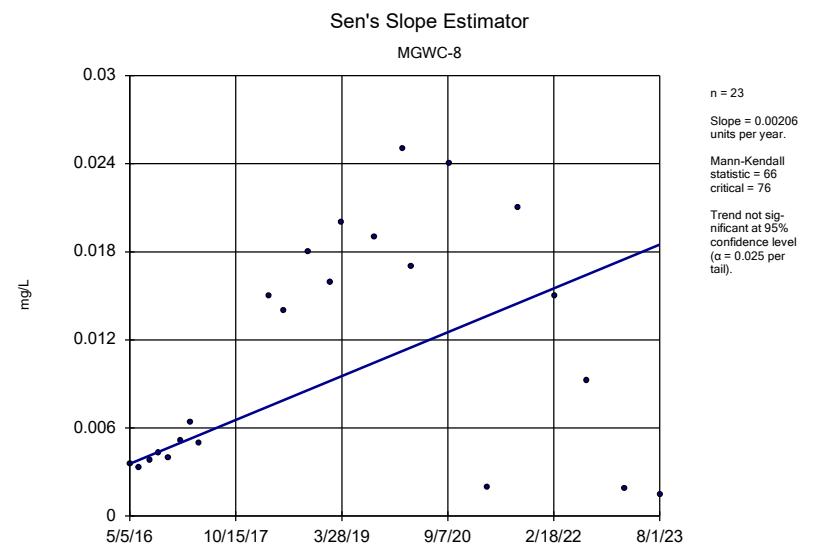
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



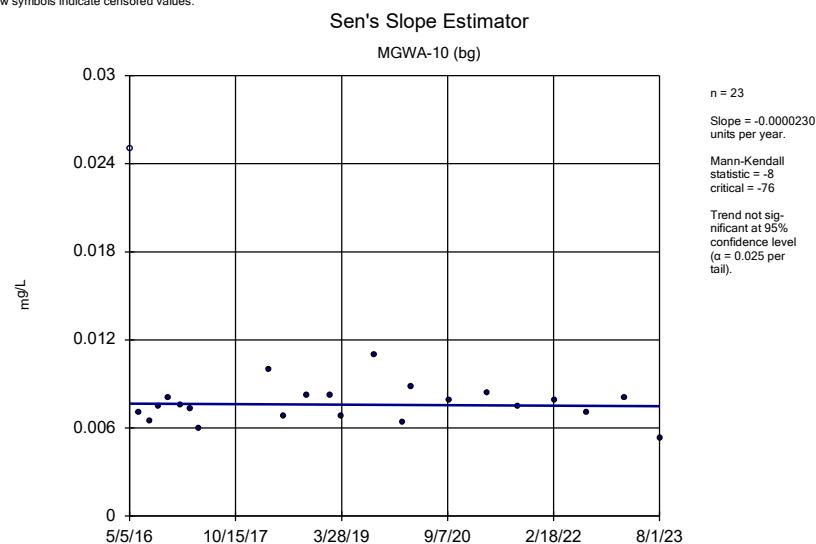
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Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



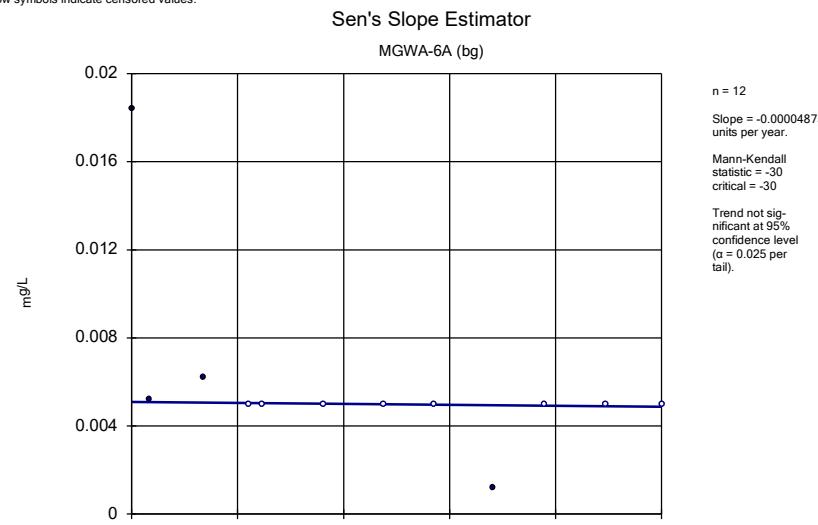
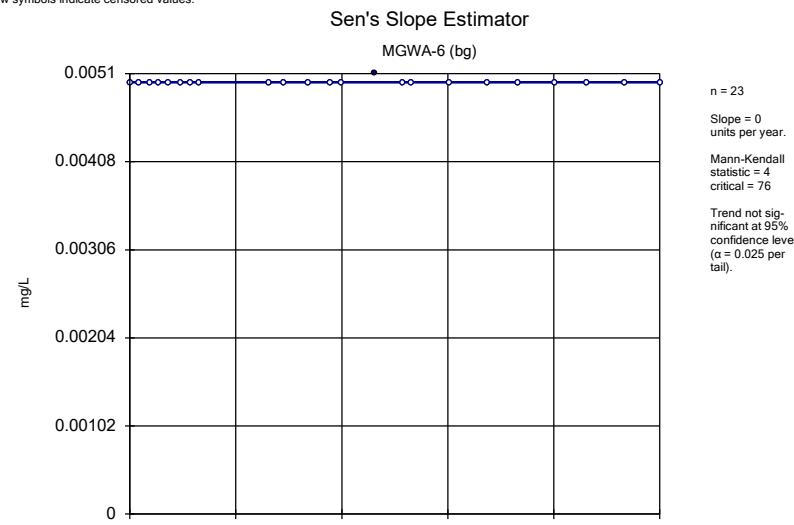
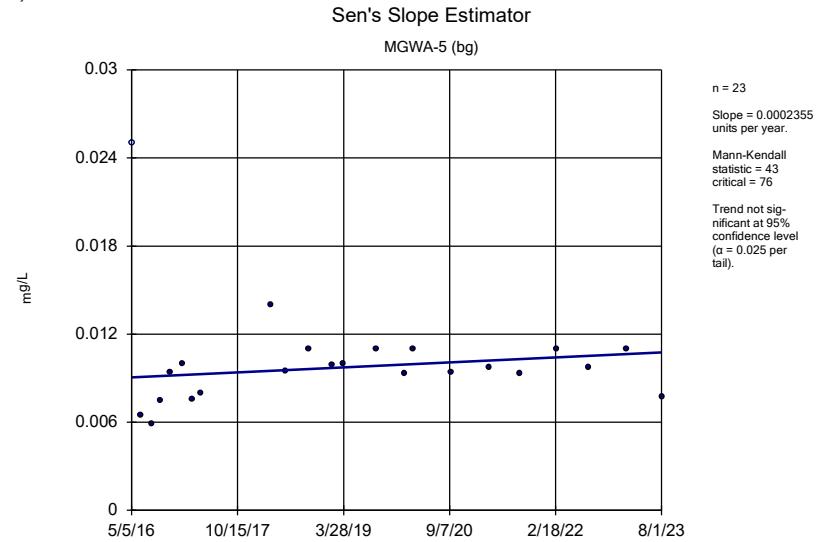
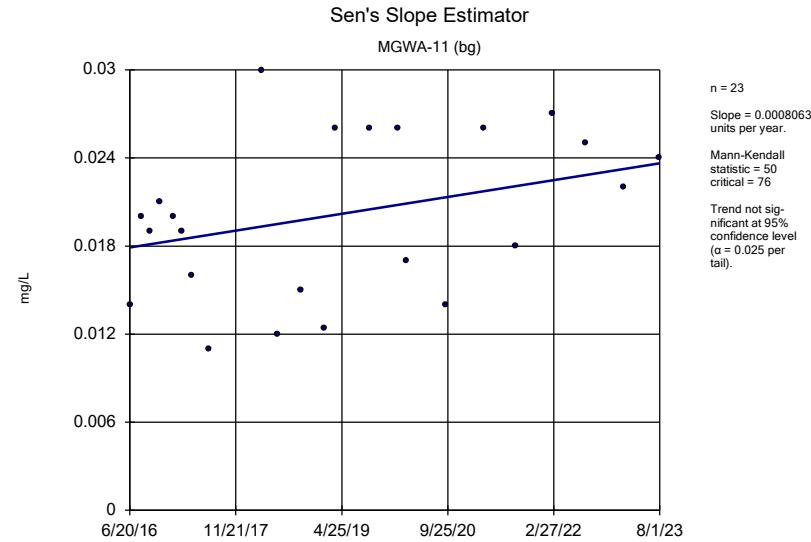
Constituent: Cobalt Analysis Run 9/26/2023 12:49 PM View: Trend Tests - App IV  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond

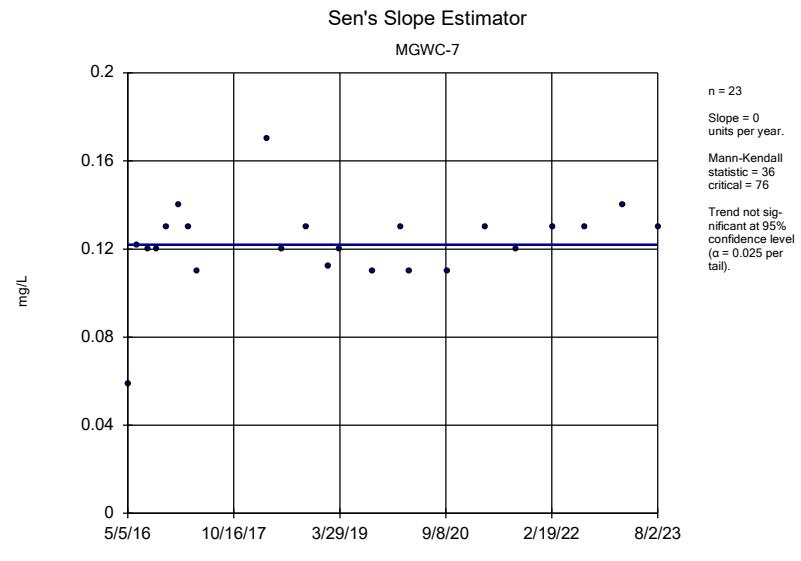


Constituent: Cobalt Analysis Run 9/26/2023 12:49 PM View: Trend Tests - App IV  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond



Constituent: Lithium Analysis Run 9/26/2023 12:49 PM View: Trend Tests - App IV  
Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond





## Appendix IV Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh Ash Pond Printed 9/26/2023, 12:51 PM

| <u>Constituent</u>   | <u>Well</u>   | <u>Slope</u>      | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u>  | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|----------------------|---------------|-------------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Cobalt (mg/L)        | MGWA-10 (bg)  | 0                 | 3            | 76              | No          | 23        | 86.96       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-11 (bg)  | 0                 | 22           | 76              | No          | 23        | 95.65       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-5 (bg)   | 0                 | 19           | 71              | No          | 22        | 95.45       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-6 (bg)   | 0                 | -21          | -76             | No          | 23        | 43.48       | n/a              | n/a          | 0.05         | NP            |
| Cobalt (mg/L)        | MGWA-6A (bg)  | 0.00003125        | 5            | 30              | No          | 12        | 16.67       | n/a              | n/a          | 0.05         | NP            |
| <b>Cobalt (mg/L)</b> | <b>MGWC-7</b> | <b>-0.0007131</b> | <b>-101</b>  | <b>-76</b>      | <b>Yes</b>  | <b>23</b> | <b>0</b>    | <b>n/a</b>       | <b>n/a</b>   | <b>0.05</b>  | <b>NP</b>     |
| Cobalt (mg/L)        | MGWC-8        | 0.00206           | 66           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-10 (bg)  | -0.00002307       | -8           | -76             | No          | 23        | 4.348       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-11 (bg)  | 0.0008063         | 50           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-5 (bg)   | 0.0002355         | 43           | 76              | No          | 23        | 4.348       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-6 (bg)   | 0                 | 4            | 76              | No          | 23        | 95.65       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWA-6A (bg)  | -0.00004875       | -30          | -30             | No          | 12        | 66.67       | n/a              | n/a          | 0.05         | NP            |
| Lithium (mg/L)       | MGWC-7        | 0                 | 36           | 76              | No          | 23        | 0           | n/a              | n/a          | 0.05         | NP            |



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